

Table 6.11-9: Chemical and Bacterial Composition for PCA Parameters (Synthetic Leachate)

Parameter	PCA Variable ID	Units	Poultry Litter 20:1	Fresh Cattle Manure SPLP 20:1	Dry Cattle Manure SPLP 20:1
			CDM Average	CDM Average	CDM Average
Dissolved Copper	CU_T	mg/L	4.54	0.0242	0.0172
E. coli	ECOLI	MPN*/100ml	12000	12000	7350
Dissolved Iron	FE_T	mg/L	7.47	0.5	0.5
TOC	TOC	mg/L	10.2	50.7	13.8
Dissolved Aluminum	AL_T	mg/L	1.23	0.5	0.5
Dissolved Nickel	NI_T	mg/L	0.235	0.0076	0.005
Fecal Coliform	FECAL	MPN*/100ml	12000	12000	7350
Enterococcus	ENTERO	MPN*/100ml	8000	8320	5440
Total Coliform	COLIFORMS	MPN*/100ml	12000	12000	7790
Dissolved Potassium	K_T	mg/L	976	73.1	19
Dissolved Zinc	ZN_T	mg/L	2.57	0.119	0.0994
Dissolved Manganese	MN_T	mg/L	1.54	0.773	0.304
Dissolved Arsenic	AS_T	mg/L	0.238	0.005	0.005
Total Dissolved P (4500PF)	P_TD	mg/L	165	37.9	28.3
Soluble Reactive P (4500PF)	P_SOL_REAC	mg/L	131	30.5	26.2
Dissolved Magnesium	MG_T	mg/L	59.7	28.1	20
Total Kjeldahl Nitrogen	TKN	mg/L	603	45.2	45.5
Dissolved Barium	BA_T	mg/L	0.202	0.198	0.145
Total Dissolved Solids	TDS	mg/L	5580	918	407
Sulfate	SO4	mg/L	384	10	10
Nitrite + Nitrate	NO2_NO3	mg/L	1	1	1
Chloride	CL	mg/L	226	27.1	10
Dissolved Sodium	NA_T	mg/L	295	42	8.86
Alkalinity (as CaCO3)	ALKALINITY	mg/L	1610	302	152
Dissolved Calcium	CA_T	mg/L	45.4	46.1	34.4

Table 6.11-10: Chemical and Bacterial Composition for PCA Parameters (Water Samples)

Parameter	PCA Variable ID	Units	Poultry EOF	Cattle EOF	Cattle Impacted Springs	WWTP Discharge	WWTP Surface Water
			CDM Average	CDM Average	CDM Average	CDM Average	CDM Average
Total Copper	CU_T	mg/L	0.16	0.00306	0.00483	0.00249	0.00156
E. coli	ECOLI	MPN*/100ml or cfu/100ml	88300	12000	790	9.5	1080
Total Iron	FE_T	mg/L	11.9	2.45	0.318	0.175	0.118
Total Organic Carbon	TOC	mg/L	57.8	11.7	8.72	5.32	3.67
Total P (4500PF)	P_T	mg/L	7.81	1.1	3.2	1.23	0.594
Total Aluminum	AL_T	mg/L	9.14	2.76	0.273	0.05	0.109
Total Nickel	Ni_T	mg/L	0.0179	0.00241	0.00517	0.0034	0.00417
Fecal Coliform	fecal	MPN*/100ml or cfu/100ml	89900	12000	452	70	1400
Enterococcus	ENTERO	ng/L	122000	12000	4100	4.5	652
Total Coliform	COLIFORMS	MPN*/100ml or cfu/100ml	2200000	12000	6900	9800	3950
Total Potassium	K_T	mg/L	46.2	8.34	21.3	10.9	12.5
Total Zinc	ZN_T	mg/L	0.154	0.0198	0.0055	0.0238	0.0187
Total Manganese	MN_T	mg/L	0.661	0.197	0.166	0.0545	0.0139
Total Arsenic	AS_T	mg/L	0.0171	0.00282	0.004	0.0012	0.00145
Total Dissolved P (4500PF)	P_TD	mg/L	4.68	0.607	3.09	1.01	0.568
Soluble Reactive P (4500PF)	P_SOL_REAC	mg/L	3.66	0.553	2.94	0.916	0.524
Total Magnesium	MG_T	mg/L	6.95	2.19	9.4	2.51	2.66
Total Kjeldahl Nitrogen	TKN	mg/L	24.2	4.19	1.87	6.34	2.02
Total Barium	BA_T	mg/L	0.174	0.0621	0.176	0.00969	0.0402
Total Dissolved Solids	TDS	mg/L	401	98	457	274	302
Sulfate	SO4	mg/L	20.4	3.34	25.4	55.4	51.2
Nitrite + Nitrate	NO2_NO3	mg/L	1.63	0.197	22.9	3.47	3.95
Chloride	CL	mg/L	22.3	3.62	37.6	46.9	48.1
Total Sodium	NA_T	mg/L	19.1	1.42	22.9	43.5	48.6
Alkalinity (as CaCO3)	ALKALINITY	mg/L	110	25	188	75.3	100
Total Calcium	CA_T	mg/L	64.5	5.99	77.3	33.2	47.2

**Appendix A**  
**Dr. Valerie Harwood, Ph.D.**  
**Evaluation of Bacteria Data**

Received 7/1/06 RAO

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Roger Olsen, Ph.D  
CDM  
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Dear Mr. Olsen,

I have reviewed the data for microbiology analyses submitted to you from FoodProtech. The analyses span the dates from 05/23/05 to 09/19/05, and were conducted on surface water samples. The following bacterial groups or species were enumerated: total coliforms, fecal coliforms, *Escherichia coli*, enterococci, *Staphylococcus* spp., *Campylobacter* spp. and *Salmonella* spp.

Standard methods for the enumeration of these analytes are propagated by groups such as APHA/AWWA/WEF (Standard Methods for the Examination of Water and Wastewater), the U.S. Environmental Protection Agency (USEPA), and the Food and Drug Administration (FDA). Laboratories should routinely utilize standard methods for microbial analysis, or, in the case of unusual samples, adaptations which follow the standard methods as closely as possible. In some cases, standard methods have been developed for microbial analytes in one sample type (e.g. *Salmonella* spp. in food), but have not yet been written for other sample types. In such cases, best laboratory practices are that an existing standard method is adapted for the new sample type which employs similar principles for isolation, characterization, and confirmation of the organisms.

Defined standard methods for the enumeration of the following microbial analytes in water exist: total coliforms, fecal coliforms, *Escherichia coli*, enterococci, and *Staphylococcus* spp.. In addition, Standard Methods for the Examination of Water and Wastewater contains suggested methods and guidelines for *Campylobacter* spp. and *Salmonella* spp., and the FDA Bacteriological Analytical Manual for analysis of food and water also contains standard methods for *Campylobacter* and *Salmonella*.

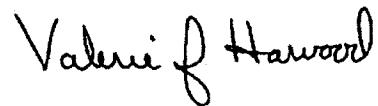
Included in the FoodProtech documents is an outline of the protocol used for each microbial analysis for CDM. Of these, only the fecal coliform enumeration (MPN until 6/10/05, and then membrane filtration on mFC agar), the Enterococcus enumeration and the Staphylococcus enumeration appear to have been conducted by standard methods. The temperature of incubation is not provided for any protocol, nor is a method number. The "Petri-film" method used for total coliforms and *E. coli* is not recognized by any regulatory agency, and is not used in research studies to my knowledge. The isolation of *Campylobacter* spp. and *Salmonella* spp. as outlined, without preliminary enrichment and without confirmation of the colonies, is not consistent with standard methods and recognized best practices for culturing these pathogens. Many microorganisms in environmental water samples can mimic the colony morphology of the pathogens on selective-differential agar, leading to false-positive results unless biochemical characterization coupled with serological or molecular confirmation are employed.

The data include many discrepancies among analytes whose concentrations should be related, possibly due to the unorthodox methods employed. Total coliform (TC) bacteria form a broad group which contains a subset known as the fecal coliforms (FC). One species included in the fecal coliform group is *E. coli* (EC). Thus, when these 3 analytes are measured in the same sample, the results should be TC>FC>EC (within the  $\pm 10\%$  error rate generally accepted in microbial analyses). In many cases, EC is reported to be greater than FC, and in some cases EC is reported to be higher than TC (e.g. lab# 860-1 June 14, 2005). If this anomaly occurred once or twice, one might attribute it to a reporting or calculation error; however, such discrepancies occur very frequently throughout the entire reporting period. Other concerns about the data include the reason for providing revised reports for data over the time period 05/23/05 through 07/12/05, which was not explained to CDM by FoodProtech. The only analyte with revised values is the total coliforms concentrations, which were consistently revised upward compared to the original values.

Based on the information provided, the fecal coliform data after 6/10/05 seem reliable (FoodProtech determined that the MPN method used prior to 6/10/05 was unreliable), as are the Enterococcus and Staphylococcus data. The total coliform, *E. coli*, *Campylobacter* and *Salmonella* data do not appear to be reliable for the reasons outlined

above, and were not performed in accordance with regulatory standards or best laboratory practices. If you have any further questions, do not hesitate to contact me.

Valerie J. Harwood, Ph.D.

A handwritten signature in black ink that reads "Valerie J. Harwood". The signature is fluid and cursive, with "Valerie" and "J." being more stylized and "Harwood" being more legible.

Associate Professor  
Department of Biology  
University of South Florida

## **Appendix B**

### **RPD Evaluation of Phosphorus Methods**

Table B-1 Comparison of Method 6010 to 365.2 (Total and Dissolved)

Sample ID		Date	Phosphorus (6010) from A&L	Phosphorus (365.2)	RPD
0.02 SPRING	Dissolved	6/14/05	0.631	<0.025	NC
ANDERSON	Dissolved	5/25/05	0.634	0.056	167.5
BLACK FOX SPRING	Dissolved	6/14/05	0.71	0.059	169.3
DAVIS SPRINGS	Dissolved	6/1/05	0.386	<0.025	NC
DRIPPING SPRINGS	Dissolved	5/24/05	0.406	0.049	156.9
ELM SPRINGS	Dissolved	5/25/05	0.615	0.04	175.6
EOF01	Dissolved	5/23/05	0.579	0.239	83.1
EOF02	Dissolved	5/23/05	1.566	0.688	77.9
EOF03	Dissolved	5/23/05	1.421	0.674	71.3
EOF04	Dissolved	5/14/05	0.455	0.205	75.8
EOF04	Dissolved	5/23/05	2.461	1.707	36.2
EOF05	Dissolved	5/14/05	0.119	0.013	160.6
EOF05	Dissolved	5/23/05	1.308	0.74	55.5
EOF06	Dissolved	5/23/05	1.085	0.348	102.9
EOF07	Dissolved	5/15/05	0.614	0.129	130.6
EOF07	Dissolved	5/23/05	0.647	0.328	65.4
EOF07	Dissolved	6/5/05	1.114	0.161	149.5
EOF08	Dissolved	5/14/05	0.565	0.321	55.1
EOF08	Dissolved	5/23/05	0.652	0.035	179.6
EOF09	Dissolved	5/14/05	0.333	0.091	114.2
EOF09	Dissolved	5/23/05	1.611	0.571	95.3
EOF09	Dissolved	6/5/05	0.737	0.214	110.0
EOF10	Dissolved	5/23/05	8.459	6.18	31.1
EOF11	Dissolved	5/23/05	2.681	1.173	78.3
EOF11	Dissolved	6/5/05	0.81	0.048	177.6
EOF12	Dissolved	5/23/05	2.509	0.599	122.9
EOF14-060205	Dissolved	6/2/05	5.662	4.373	25.7
EOF15-060205	Dissolved	6/2/05	0.147	<0.05	NC
EOF16	Dissolved	6/5/05	0.533	0.031	178.0
EOF17	Dissolved	6/5/05	0.39	0.083	129.8
EOF18	Dissolved	6/5/05	0.543	<0.025	NC
EOF19	Dissolved	6/5/05	0.337	<0.025	NC
EOF20	Dissolved	6/5/05	1.145	0.151	153.4
EOF21	Dissolved	6/5/05	1.032	0.083	170.2
EOF22	Dissolved	6/5/05	1.773	0.531	107.8
EOF23	Dissolved	6/5/05	0.122	<0.025	NC
EOF24	Dissolved	6/5/05	0.399	<0.025	NC
EOF25	Dissolved	6/5/05	0.904	0.068	172.0
EOF26	Dissolved	6/5/05	1.347	0.698	63.5
EOF27	Dissolved	6/5/05	0.413	0.129	104.8
EOF28	Dissolved	6/5/05	1.033	0.439	80.7
EOF29	Dissolved	6/5/05	0.149	<0.025	NC
EOF30	Dissolved	6/5/05	0.259	<0.025	NC
GOAD SPR.	Dissolved	5/25/05	0.891	0.064	173.2
HFS02	Dissolved	6/15/05	0.815	0.133	143.9
HFS02	Dissolved	6/27/05	0.676	0.031	182.5
HFS02-BF1	Dissolved	7/11/05	0.565	<0.025	NC
HFS04 - 1 TO 3	Dissolved	5/25/05	1.769	0.996	55.9
HFS04 - 14 TO 16	Dissolved	5/25/05	1.717	0.915	60.9
HFS04 - 7 TO 9	Dissolved	5/25/05	1.852	1.261	38.0
HFS04A	Dissolved	6/22/05	1.866	1.01	59.5
HFS04B	Dissolved	6/22/05	1.613	0.921	54.6
HFS04-BF1	Dissolved	7/13/05	2.307	0.965	82.0
HFS05	Dissolved	7/7/05	0.896	<0.025	NC
HFS05A	Dissolved	6/27/05	0.654	0.04	176.9
HFS05A	Dissolved	6/7/05	0.941	0.031	187.2

Table B-1 Comparison of Method 6010 to 365.2 (Total and Dissolved)

Sample ID		Date	Phosphorus (6010) from A&L	Phosphorus (365.2)	RPD
HFS05B	Dissolved	6/27/05	0.687	0.05	172.9
HFS05B	Dissolved	6/7/05	0.731	0.053	173.0
HFS05-BF1	Dissolved	7/12/05	0.899	<0.025	NC
HFS08A	Dissolved	6/15/05	0.698	2.75	119.0
HFS08B	Dissolved	6/15/05	0.604	0.04	175.2
HFS08-BF1	Dissolved	7/13/05	0.533	<0.025	NC
HFS14	Dissolved	6/9/05	0.67	0.216	102.5
HFS14A	Dissolved	6/15/05	0.727	<0.025	NC
HFS14B	Dissolved	6/15/05	0.738	0.031	183.9
HFS14-BF1	Dissolved	7/12/05	0.699	<0.025	NC
HFS16	Dissolved	6/15/05	1.02	0.161	145.5
HFS16A	Dissolved	6/27/05	0.709	0.068	165.0
HFS16B	Dissolved	6/27/05	0.799	0.161	132.9
HFS16-BF1	Dissolved	7/11/05	0.904	0.04	183.1
HFS20A	Dissolved	6/15/05	1.007	0.124	156.1
HFS20A	Dissolved	7/7/05	0.987	0.049	181.1
HFS20B	Dissolved	6/15/05	0.907	0.142	145.9
HFS20B	Dissolved	7/7/05	1.035	<0.025	NC
HFS20-BF1	Dissolved	7/13/05	0.995	0.049	181.2
HFS21	Dissolved	6/7/05	0.24	<0.025	NC
HFS21	Dissolved	7/7/05	0.465	<0.025	NC
HFS21-BF1	Dissolved	7/13/05	0.706	<0.025	NC
HFS22	Dissolved	6/7/05	2.027	1.19	52.0
HFS22A	Dissolved	6/15/05	2.128	1.22	54.2
HFS22B	Dissolved	6/15/05	1.89	1.267	39.5
HFS22-BF1	Dissolved	7/12/05	1.618	<0.025	NC
HFS23	Dissolved	6/15/05	0.99	<0.025	NC
HFS23	Dissolved	6/27/05	0.752	<0.025	NC
HFS23	Dissolved	6/7/05	0.893	0.031	186.6
HFS23	Dissolved	7/7/05	0.869	<0.025	NC
HFS23-BF1	Dissolved	7/12/05	0.846	<0.025	NC
HFS26-BF1	Dissolved	7/13/05	0.548	<0.025	NC
HFS26-BF1-DP	Dissolved	7/13/05	0.602	<0.025	NC
HUGHES SPR.	Dissolved	5/25/05	0.75	0.056	172.2
JULY SPRING	Dissolved	6/16/05	0.927	<0.025	NC
KEY SPRING	Dissolved	6/16/05	0.857	0.031	186.0
KIRK SPRING	Dissolved	6/16/05	0.51	<0.025	NC
LIMESTONE SPRINGS	Dissolved	6/2/05	0.679	<0.025	NC
LIVING WATER SPRING	Dissolved	5/26/05	0.846	0.081	165.0
LK-01-1	Dissolved	6/15/05	0.47	<0.025	NC
LK-01-1	Dissolved	6/2/05	0.414	<0.025	NC
LK-01-1	Dissolved	6/29/05	0.29	<0.025	NC
LK-01-1	Dissolved	7/12/05	0.39	<0.025	NC
LK-01-14	Dissolved	5/18/05	0.535	<0.025	NC
LK-01-14	Dissolved	6/15/05	0.564	<0.025	NC
LK-01-14	Dissolved	6/2/05	0.504	<0.025	NC
LK-01-14	Dissolved	6/29/05	0.534	<0.025	NC
LK-01-14	Dissolved	7/12/05	0.596	<0.025	NC
LK-01-18	Dissolved	7/12/05	0.56	<0.025	NC
LK-01-2	Dissolved	5/18/05	0.51	<0.025	NC
LK-01-25	Dissolved	5/18/05	0.515	<0.025	NC
LK-01-25	Dissolved	6/15/05	0.609	<0.025	NC
LK-01-25	Dissolved	6/2/05	0.502	<0.025	NC
LK-01-25	Dissolved	6/29/05	0.385	<0.05	NC
LK-01-25	Dissolved	7/12/05	0.531	<0.025	NC
LK-01-2-D	Dissolved	5/18/05	0.519	<0.025	NC

Table B-1 Comparison of Method 6010 to 365.2 (Total and Dissolved)

Sample ID		Date	Phosphorus (6010) from A&L	Phosphorus (365.2)	RPD
LK-02-1	Dissolved	6/15/05	0.483	<0.025	NC
LK-02-1	Dissolved	6/2/05	0.499	<0.025	NC
LK-02-1	Dissolved	6/29/05	0.316	<0.025	NC
LK-02-1	Dissolved	7/12/05	0.38	<0.025	NC
LK-02-10	Dissolved	6/15/05	0.653	<0.025	NC
LK-02-10	Dissolved	6/2/05	0.534	<0.025	NC
LK-02-10	Dissolved	6/29/05	0.569	<0.025	NC
LK-02-10	Dissolved	7/12/05	0.57	<0.025	NC
LK-02-12	Dissolved	5/18/05	0.537	<0.025	NC
LK-02-2	Dissolved	5/18/05	0.53	<0.025	NC
LK-02-20	Dissolved	5/18/05	0.511	<0.025	NC
LK-02-22	Dissolved	6/15/05	0.601	<0.025	NC
LK-02-22	Dissolved	6/2/05	0.573	<0.025	NC
LK-02-22	Dissolved	6/29/05	0.506	<0.025	NC
LK-02-22	Dissolved	7/12/05	0.61	<0.025	NC
LK-03-1	Dissolved	5/17/05	0.564	<0.025	NC
LK-03-1	Dissolved	6/15/05	0.408	<0.025	NC
LK-03-1	Dissolved	6/2/05	0.42	<0.025	NC
LK-03-1	Dissolved	6/29/05	0.266	<0.025	NC
LK-03-1	Dissolved	7/12/05	0.419	<0.025	NC
LK-03-1DP	Dissolved	6/15/05	0.34	<0.025	NC
LK-03-1DP	Dissolved	6/29/05	0.256	<0.025	NC
LK-03-1-DP	Dissolved	7/12/05	0.454	<0.025	NC
LK-03-3	Dissolved	6/15/05	0.418	<0.025	NC
LK-03-3	Dissolved	6/2/05	0.458	0.142	105.3
LK-03-3	Dissolved	6/29/05	0.259	<0.025	NC
LK-03-3	Dissolved	7/12/05	0.395	<0.025	NC
LK-03-5	Dissolved	5/17/05	0.465	<0.025	NC
LK-03-5	Dissolved	6/2/05	0.488	<0.025	NC
LK-03-6	Dissolved	6/15/05	0.587	<0.025	NC
LK-03-6	Dissolved	6/29/05	0.494	<0.025	NC
LK-03-6	Dissolved	7/12/05	0.505	<0.025	NC
LK-03-7	Dissolved	5/17/05	0.565	<0.025	NC
LOGAN SPRINGS	Dissolved	5/24/05	0.616	0.07	159.2
OSAGE SPR.	Dissolved	5/25/05	0.537	0.035	175.5
RS-1	Dissolved	6/1/05	0.688	<0.025	NC
RS-1	Dissolved	6/14/05	0.774	<0.025	NC
RS-1	Dissolved	6/28/05	0.626	0.031	181.1
RS-1	Dissolved	7/11/05	0.674	0.031	182.4
RS-2	Dissolved	6/1/05	0.542	<0.025	NC
RS-2	Dissolved	6/14/05	0.646	<0.025	NC
RS-2	Dissolved	6/28/05	0.63	<0.025	NC
RS-2	Dissolved	7/11/05	0.621	<0.025	NC
RS-3	Dissolved	6/1/05	0.679	0.059	168.0
RS-3	Dissolved	6/14/05	0.788	0.124	145.6
RS-3	Dissolved	6/28/05	0.591	0.031	180.1
RS-3	Dissolved	7/11/05	0.77	0.068	167.5
RS-3DP	Dissolved	6/14/05	0.786	0.086	160.6
SALEM SPRINGS	Dissolved	6/2/05	1.122	0.253	126.4
SSA01	Dissolved	5/14/05	0.698	0.09	154.3
TYLER SPRINGS	Dissolved	6/2/05	0.669	<0.025	NC
UNMARKED SPRING	Dissolved	5/26/05	0.586	0.028	181.8
EOF01	Total	05/23/05	0.66	1.96	99.2
EOF02	Total	05/23/05	1.872	3.57	62.4
EOF03	Total	05/23/05	1.974	4.22	72.5
EOF04	Total	05/14/05	0.643	2.31	112.9

Table B-1 Comparison of Method 6010 to 365.2 (Total and Dissolved)

Sample ID		Date	Phosphorus (6010) from A&L	Phosphorus (365.2)	RPD
EOF04	Total	05/23/05	2.911	3.78	26.0
EOF05	Total	05/14/05	0.31	0.96	102.4
EOF05	Total	05/23/05	2.483	4.15	50.3
EOF06	Total	05/23/05	1.261	2.88	78.2
EOF07	Total	05/15/05	17.557	6.55	91.3
EOF07	Total	05/23/05	0.624	1.27	68.2
EOF08	Total	05/14/05	4.679	4.89	4.4
EOF08	Total	05/23/05	0.3	0.95	104.0
EOF09	Total	05/14/05	5.64	6.3	11.1
EOF09	Total	05/23/05	1.081	2.82	89.2
EOF10	Total	05/23/05	7.802	10.78	32.1
EOF11	Total	05/23/05	2.833	4.5	45.5
EOF12	Total	05/23/05	2.443	4.78	64.7
EOF14-060205	Total	06/02/05	23.893	10.34	79.2
EOF15-060205	Total	06/02/05	0.27	0.47	54.1
EOF17	Total	06/05/05	1.081	0.84	25.1
HFS02	Total	06/15/05	0.17	0.84	132.7
HFS02	Total	06/27/05	<0.025	0.63	NC
HFS02-BF1	Total	07/11/05	<0.025	0.69	NC
HFS04 - 1 TO 3	Total	05/25/05	1.302	1.85	34.8
HFS04 - 14 TO 16	Total	05/25/05	0.525	1.65	103.4
HFS04 - 7 TO 9	Total	05/25/05	0.818	1.83	76.4
HFS04A	Total	06/22/05	4.266	1.86	78.6
HFS04B	Total	06/22/05	0.68	1.61	81.2
HFS04-BF1	Total	07/13/05	1.081	2.43	76.8
HFS05A	Total	06/27/05	0.068	0.63	161.0
HFS05B	Total	06/27/05	0.05	0.76	175.3
HFS05A	Total	06/07/05	0.068	1.02	175.0
HFS05-BF1	Total	07/12/05	<0.025	0.94	NC
HFS05	Total	07/07/05	<0.025	0.88	NC
HFS08A	Total	06/15/05	<0.025	0.6	NC
HFS08B	Total	06/15/05	<0.025	0.55	NC
HFS08-BF1	Total	07/13/05	<0.025	0.49	NC
HFS14A	Total	06/15/05	<0.025	0.66	NC
HFS14B	Total	06/15/05	<0.025	0.79	NC
HFS14	Total	06/09/05	<0.025	0.74	NC
HFS14-BF1	Total	07/12/05	<0.025	0.75	NC
HFS16	Total	06/15/05	0.309	1.13	114.1
HFS16A	Total	06/27/05	0.179	0.85	130.4
HFS16B	Total	06/27/05	0.272	1	114.5
HFS16-BF1	Total	07/11/05	0.216	1.09	133.8
HFS20A	Total	06/15/05	0.161	0.89	138.7
HFS20B	Total	06/15/05	0.253	0.94	115.2
HFS20-BF1	Total	07/13/05	0.068	1.06	175.9
HFS20A	Total	07/07/05	0.068	0.99	174.3
HFS20B	Total	07/07/05	0.086	1.01	168.6
HFS21	Total	06/07/05	<0.025	0.29	NC
HFS21-BF1	Total	07/13/05	0.035	0.75	182.2
HFS21	Total	07/07/05	0.04	0.45	167.3
HFS22A	Total	06/15/05	0.733	2.14	97.9
HFS22B	Total	06/15/05	0.995	1.83	59.1
HFS22	Total	06/07/05	0.114	2.01	178.5
HFS22-BF1	Total	07/12/05	0.791	1.76	76.0
HFS23	Total	06/15/05	<0.025	0.93	NC
HFS23	Total	06/27/05	<0.025	0.82	NC
HFS23	Total	06/07/05	0.031	0.82	185.4

Table B-1 Comparison of Method 6010 to 365.2 (Total and Dissolved)

Sample ID		Date	Phosphorus (6010) from A&L	Phosphorus (365.2)	RPD
HFS23-BF1	Total	07/12/05	0.031	0.92	187.0
HFS23	Total	07/07/05	<0.025	0.93	NC
HFS26-BF1-DP	Total	07/13/05	<0.025	0.51	NC
HFS26-BF1	Total	07/13/05	<0.025	0.58	NC
LK-01-2-D	Total	05/18/05	<0.025	0.5	NC
LK-01-14	Total	05/18/05	<0.025	0.46	NC
LK-01-2	Total	05/18/05	<0.025	0.51	NC
LK-01-25	Total	05/18/05	0.106	0.69	146.7
LK-01-1	Total	06/15/05	<0.025	0.47	NC
LK-01-14	Total	06/15/05	<0.025	0.68	NC
LK-01-25	Total	06/15/05	<0.025	0.65	NC
LK-01-1	Total	06/02/05	<0.025	0.43	NC
LK-01-14	Total	06/02/05	<0.025	0.53	NC
LK-01-25	Total	06/02/05	<0.025	0.54	NC
LK-01-1	Total	06/29/05	<0.025	0.32	NC
LK-01-14	Total	06/29/05	<0.025	0.54	NC
LK-01-25	Total	06/29/05	<0.025	0.4	NC
LK-01-1	Total	07/12/05	<0.025	0.47	NC
LK-01-14	Total	07/12/05	<0.025	0.58	NC
LK-01-18	Total	07/12/05	<0.025	0.54	NC
LK-01-25	Total	07/12/05	<0.025	0.58	NC
LK-02-12	Total	05/18/05	<0.025	0.54	NC
LK-02-2	Total	05/18/05	<0.025	0.58	NC
LK-02-20	Total	05/18/05	<0.025	0.52	NC
LK-02-1	Total	06/15/05	<0.025	0.52	NC
LK-02-10	Total	06/15/05	<0.025	0.64	NC
LK-02-22	Total	06/15/05	<0.025	0.58	NC
LK-02-1	Total	06/02/05	<0.025	0.37	NC
LK-02-10	Total	06/02/05	<0.025	0.53	NC
LK-02-22	Total	06/02/05	<0.025	0.55	NC
LK-02-1	Total	06/29/05	<0.025	0.35	NC
LK-02-10	Total	06/29/05	<0.025	0.5	NC
LK-02-22	Total	06/29/05	<0.025	0.58	NC
LK-02-1	Total	07/12/05	<0.025	0.39	NC
LK-02-10	Total	07/12/05	<0.025	0.54	NC
LK-02-22	Total	07/12/05	0.086	0.7	156.2
LK-03-1	Total	05/17/05	<0.025	0.55	NC
LK-03-5	Total	05/17/05	<0.025	0.55	NC
LK-03-7	Total	05/17/05	<0.025	0.57	NC
LK-03-1DP	Total	06/15/05	<0.025	0.43	NC
LK-03-1	Total	06/15/05	<0.025	0.44	NC
LK-03-3	Total	06/15/05	<0.025	0.46	NC
LK-03-6	Total	06/15/05	<0.025	0.71	NC
LK-03-1	Total	06/02/05	<0.025	0.47	NC
LK-03-3	Total	06/02/05	<0.025	0.42	NC
LK-03-4	Total	06/02/05	0.146	0.5	109.6
LK-03-5	Total	06/02/05	<0.025	0.5	NC
LK-03-6	Total	06/02/05	<0.025	0.53	NC
LK-03-1DP	Total	06/29/05	<0.025	0.35	NC
LK-03-1	Total	06/29/05	<0.025	0.31	NC
LK-03-3	Total	06/29/05	<0.025	0.33	NC
LK-03-6	Total	06/29/05	0.049	0.54	166.7
LK-03-1-DP	Total	07/12/05	<0.025	0.48	NC
LK-03-1	Total	07/12/05	<0.025	0.45	NC
LK-03-3	Total	07/12/05	<0.025	0.44	NC
LK-03-6	Total	07/12/05	<0.025	0.41	NC

Table B-1 Comparison of Method 6010 to 365.2 (Total and Dissolved)

Sample ID		Date	Phosphorus (6010) from A&L	Phosphorus (365.2)	RPD
RS-1	Total	06/01/05	<0.025	0.71	NC
RS-1	Total	06/14/05	<0.025	0.76	NC
RS-1	Total	06/28/05	0.049	0.61	170.3
RS-1	Total	07/11/05	0.04	0.73	179.2
RS-2	Total	06/01/05	<0.025	0.57	NC
RS-2	Total	06/14/05	<0.025	0.64	NC
RS-2	Total	06/28/05	<0.025	0.58	NC
RS-2	Total	07/11/05	0.031	0.63	181.2
RS-3	Total	06/01/05	0.096	0.66	149.2
RS-3DP	Total	06/14/05	0.114	0.84	152.2
RS-3	Total	06/14/05	0.133	0.92	149.5
RS-3	Total	06/28/05	0.086	0.7	156.2
RS-3	Total	07/11/05	0.086	0.73	157.8
A<0.025ERSON	Total	05/25/05	<0.025	0.69	NC
BLACK FOX SPRING	Total	06/14/05	0.04	0.65	176.8
DRIPPING SPRINGS	Total	05/24/05	0.06	0.35	141.5
ELM SPRINGS	Total	05/25/05	0.061	0.63	164.7
GOAD SPR.	Total	05/25/05	<0.025	0.91	NC
JULY SPRING	Total	06/16/05	0.049	0.97	180.8
KEY SPRING	Total	06/16/05	0.077	0.84	166.4
KIRK SPRING	Total	06/16/05	0.049	0.64	171.6
LIVING WATER SPRING	Total	05/26/05	0.113	1.1	162.7
LOGAN SPRINGS	Total	05/24/05	0.049	0.62	170.7
OSAGE SPR.	Total	05/25/05	<0.025	0.61	NC
SALEM SPRINGS	Total	06/02/05	0.337	1.18	111.1
TYLER SPRINGS	Total	06/02/05	0.027	0.68	184.7
UNMARKED SPRING	Total	05/26/05	<0.025	0.69	NC
HUGHES SPR.	Total	05/25/05	0.048	0.75	175.9
LIMESTONE SPRINGS	Total	06/02/05	<0.025	0.66	NC
DAVIS SPRINGS	Total	06/01/05	<0.025	0.43	NC
0.02 SPRING	Total	06/14/05	0.04	0.64	176.5
SSA01	Total	05/14/05	0.14	0.85	143.4

nc = not calculated

Table B-2 Comparison of Method 6010 to 4500PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6010) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
HFS02-BF1	Dissolved	7/11/05	0.565	0.031	179.4
HFS04-BF1	Dissolved	7/13/05	2.307	1.374	50.7
HFS05-BF1	Dissolved	7/12/05	0.899	0.047	180.1
HFS08-BF1	Dissolved	7/13/05	0.533	0.024	182.5
HFS14-BF1	Dissolved	7/12/05	0.699	0.027	185.3
HFS16-BF1	Dissolved	7/11/05	0.904	0.062	174.3
HFS20-BF1	Dissolved	7/13/05	0.995	0.067	174.8
HFS21-BF1	Dissolved	7/13/05	0.706	0.031	183.4
HFS22-BF1	Dissolved	7/12/05	1.618	0.751	73.2
HFS23-BF1	Dissolved	7/12/05	0.846	0.017	192.2
HFS26-BF1-DP	Dissolved	7/13/05	0.602	0.005	196.4
HFS26-BF1	Dissolved	7/13/05	0.548	0.004	197.1
LK-01-1	Dissolved	6/29/05	0.29	0.007	190.8
LK-01-14	Dissolved	6/29/05	0.534	0.007	195.2
LK-01-25	Dissolved	6/29/05	0.385	0.008	191.7
LK-01-1	Dissolved	7/12/05	0.39	0.004	196.2
LK-01-14	Dissolved	7/12/05	0.596	0.003	197.7
LK-01-25	Dissolved	7/12/05	0.531	0.003	197.6
LK-02-1	Dissolved	6/29/05	0.316	0.006	192.9
LK-02-10	Dissolved	6/29/05	0.569	0.006	195.6
LK-02-22	Dissolved	6/29/05	0.506	0.018	186.3
LK-02-1	Dissolved	7/12/05	0.38	0.004	196.1
LK-02-10	Dissolved	7/12/05	0.57	0.002	198.3
LK-02-22	Dissolved	7/12/05	0.61	0.024	184.9
LK-03-1	Dissolved	6/29/05	0.266	0.009	186.4
LK-03-3	Dissolved	6/29/05	0.259	0.006	190.4
LK-03-6	Dissolved	6/29/05	0.494	0.007	194.6
LK-03-1	Dissolved	7/12/05	0.419	0.006	194.8
LK-03-3	Dissolved	7/12/05	0.395	0.004	195.8
LK-03-6	Dissolved	7/12/05	0.505	0.004	197.1
RS-1	Dissolved	6/28/05	0.626	0.032	180.4
RS-1	Dissolved	7/11/05	0.674	0.015	191.2
RS-2	Dissolved	6/28/05	0.63	0.023	185.8
RS-2	Dissolved	7/11/05	0.621	0.017	189.4
RS-3	Dissolved	6/28/05	0.591	0.063	161.2
RS-3	Dissolved	7/11/05	0.77	0.061	170.6
HFS02-BF1	Total	7/11/05	0.69	0.03	181.9
HFS04-BF1	Total	7/13/05	2.43	1.65	38.0
HFS05-BF1	Total	7/12/05	0.94	0.05	178.9
HFS08-BF1	Total	7/13/05	0.49	0.02	180.9
HFS14-BF1	Total	7/12/05	0.75	0.03	186.1
HFS16-BF1	Total	7/11/05	1.09	0.19	140.6
HFS20-BF1	Total	7/13/05	1.06	0.07	176.1
HFS21-BF1	Total	7/13/05	0.75	0.03	182.2
HFS22-BF1	Total	7/12/05	1.76	0.78	76.7
HFS23-BF1	Total	7/12/05	0.92	0.03	185.3
HFS26-BF1-DP	Total	7/13/05	0.51	0.01	195.6
HFS26-BF1	Total	7/13/05	0.58	0.00	196.9
LK-01-1	Total	6/29/05	0.32	0.01	187.1
LK-01-14	Total	6/29/05	0.54	0.01	194.3
LK-01-25	Total	6/29/05	0.4	0.03	169.9
LK-01-1	Total	7/12/05	0.47	0.01	193.4
LK-01-14	Total	7/12/05	0.58	0.00	197.4
LK-01-25	Total	7/12/05	0.58	0.01	193.9
LK-02-1	Total	6/29/05	0.35	0.01	185.5

Table B-2 Comparison of Method 6010 to 4500PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6010) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
LK-02-10	Total	6/29/05	0.5	0.01	191.8
LK-02-22	Total	6/29/05	0.58	0.03	182.3
LK-02-1	Total	7/12/05	0.39	0.01	188.6
LK-02-10	Total	7/12/05	0.54	0.01	195.3
LK-02-22	Total	7/12/05	0.7	0.03	182.9
LK-03-1	Total	6/29/05	0.31	0.03	169.0
LK-03-3	Total	6/29/05	0.33	0.03	165.6
LK-03-6	Total	6/29/05	0.54	0.04	173.9
LK-03-1	Total	7/12/05	0.45	0.02	187.0
LK-03-3	Total	7/12/05	0.44	0.01	187.5
LK-03-6	Total	7/12/05	0.41	0.01	191.2
RS-1	Total	6/28/05	0.61	0.03	180.2
RS-1	Total	7/11/05	0.73	0.02	187.8
RS-2	Total	6/28/05	0.58	0.03	181.2
RS-2	Total	7/11/05	0.63	0.02	188.8
RS-3	Total	6/28/05	0.7	0.07	161.7
RS-3	Total	7/11/05	0.73	0.06	168.4

nc = not calculated

Table B-3 Comparison of Method 4500PF to 365.2 (Total)

Sample ID		Date	Phosphorus (4500PF) Aquatic (mg/L)	Phosphorus (365.2) A&L (mg/L)	RPD
BS-08-SW	Total	8/23/05	0.021	<0.025	NC
BS-117-SW	Total	9/14/05	0.038	0.049	-25.4
BS-208-SW	Total	9/1/05	0.031	0.031	-0.3
BS-28-SW	Total	8/23/05	0.029	<0.025	NC
BS-35-SW	Total	9/22/05	0.022	<0.025	NC
BS-62A-SW	Total	8/16/05	0.068	0.086	-23.8
BS-68-SW	Total	8/19/05	0.034	0.031	9.7
BS-HF04-SW	Total	8/17/05	1.397	0.733	62.4
BS-HF22-SW	Total	8/24/05	1.077	1.014	6.0
BS-HF28A-SW	Total	8/18/05	0.009	<0.025	NC
BS-REF1-SW	Total	8/30/05	0.005	0.049	-160.9
BS-REF2-SW	Total	8/31/05	0.028	<0.025	NC
BS-REF3-SW-03	Total	9/1/05	0.026	<0.025	NC
BS-REF3-SW	Total	9/1/05	0.026	0.031	-17.5
GF1	Total	3/9/06	0.901	0.61	38.5
HFS02	Total	7/11/05	0.024	0.04	-51.9
HFS02-BF1	Total	7/11/05	0.033	<0.025	NC
HFS02-BF2-01	Total	8/27/05	0.023	0.049	-71.0
HFS-04	Total	3/10/06	1.952	1.08	57.5
HFS-04 PEAK	Total	3/10/06	1.832	0.849	73.3
HFS04-BF1	Total	7/13/05	1.654	1.081	41.9
HFS04	Total	7/27/05	0.950	0.921	3.1
HFS04A	Total	8/20/05	no data	0.226	NC
HFS04-BF2-01	Total	8/27/05	1.640	0.086	180.1
HFS04	Total	9/28/05	1.897	1.034	58.9
HFS-05	Total	3/22/06	0.023	<0.025	NC
HFS-05 PEAK	Total	3/22/06	0.014	<0.025	NC
HFS05-BF1	Total	7/12/05	0.052	<0.025	NC
HFS05-BF2-01	Total	8/29/05	no data	0.149	NC
HFS05	Total	9/28/05	0.059	<0.025	NC
HFS08-BF1	Total	7/13/05	0.025	<0.025	NC
HFS08-BF2-01	Total	8/28/05	0.022	0.094	-124.7
HFS-14	Total	3/10/06	0.271	0.606	-76.5
HFS-14 PEAK	Total	3/10/06	0.627	0.578	8.2
HFS14-BF1	Total	7/12/05	0.027	<0.025	NC
HFS14	Total	7/23/05	0.006	<0.025	NC
HFS14-BF2-01	Total	8/27/05	0.021	0.138	-147.9
HFS-16	Total	3/10/06	0.051	0.053	-3.6
HFS16-BF1	Total	7/11/05	0.190	0.216	-12.8
HFS16	Total	7/13/05	0.080	0.077	3.5
HFS16	Total	8/14/05	0.313	0.29	7.8
HFS16-BF2-03	Total	8/27/05	0.126	0.205	-47.9
HFS16-BF2-01	Total	8/27/05	0.118	0.205	-53.6
HFS16	Total	9/15/05	0.280	0.263	6.3
HFS-20	Total	3/10/06	0.040	<0.025	NC
HFS20-BF1	Total	7/13/05	0.067	0.068	-1.0
HFS20	Total	7/26/05	0.327	0.309	5.6
HFS20	Total	8/14/05	0.076	0.077	-1.9
HFS20-BF2-01	Total	8/27/05	0.071	0.157	-75.1
HFS-21	Total	3/21/06	0.017	<0.025	NC
HFS21-BF1	Total	7/13/05	0.035	0.035	-0.1
HFS21	Total	8/14/05	0.066	0.072	-9.4
HFS21	Total	8/20/05	0.197	0.207	-4.8
HFS21	Total	9/16/05	0.067	0.216	-105.8
HFS21	Total	9/28/05	0.040	<0.025	NC

Table B-3 Comparison of Method 4500PF to 365.2 (Total)

Sample ID		Date	Phosphorus (4500PF) Aquatic (mg/L)	Phosphorus (365.2) A&L (mg/L)	RPD
HFS-22	Total	3/22/06	0.724	0.754	-4.1
HFS-22 PEAK	Total	3/22/06	1.012	1.03	-1.7
HFS22-BF1	Total	7/12/05	0.785	0.791	-0.8
HFS22-BF2-01	Total	8/28/05	1.310	0.102	171.1
HFS22	Total	9/15/05	0.062	0.049	24.0
HFS-23	Total	3/22/06	0.057	0.068	-17.7
HFS23-BF1	Total	7/12/05	0.035	0.031	12.1
HFS23	Total	7/16/05	0.072	0.035	68.9
HFS23	Total	7/23/05	0.068	0.031	74.1
HFS23A	Total	8/14/05	0.041	0.046	-11.9
HFS23-BF2-01	Total	8/28/05	0.087	<0.025	NC
HFS23	Total	9/16/05	0.090	0.179	-65.9
HFS23	Total	9/25/05	0.143	0.096	39.3
HFS26-BF1-DP	Total	7/13/05	0.006	<0.025	NC
HFS26-BF1	Total	7/13/05	0.005	<0.025	NC
HFS26-BF2-01	Total	8/27/05	no data	0.05	NC
HFS28A-BF2-01	Total	8/28/05	no data	0.077	NC
HFS-29	Total	3/10/06	0.033	<0.025	NC
LK-01-1	Total	6/29/05	0.011	<0.025	NC
LK-01-14	Total	6/29/05	0.008	<0.025	NC
LK-01-25	Total	6/29/05	0.033	<0.050	NC
LK-01-8	Total	6/29/05	0.018	<0.025	NC
LK-01-1	Total	7/12/05	0.008	<0.025	NC
LK-01-14	Total	7/12/05	0.004	<0.025	NC
LK-01-25	Total	7/12/05	0.009	<0.025	NC
LK-01-1-01	Total	7/26/05	0.009	<0.025	NC
LK-01-14-01	Total	7/26/05	0.006	<0.025	NC
LK-01-18-01	Total	7/26/05	0.005	<0.025	NC
LK-01-22-01	Total	7/26/05	0.012	<0.025	NC
LK-01-25-01	Total	7/26/05	0.008	<0.025	NC
LK-01-8-01	Total	7/26/05	0.012	<0.025	NC
LK-01-1-01	Total	8/24/05	0.012	<0.025	NC
LK-01-14-01	Total	8/24/05	0.008	<0.025	NC
LK-01-18-01	Total	8/24/05	0.005	<0.025	NC
LK-01-22-01	Total	8/24/05	0.009	<0.025	NC
LK-01-8-01	Total	8/24/05	0.011	<0.025	NC
LK-01-1-01	Total	8/9/05	0.009	<0.025	NC
LK-01-14-01	Total	8/9/05	0.006	<0.025	NC
LK-01-18-01	Total	8/9/05	0.005	<0.025	NC
LK-01-22-01	Total	8/9/05	0.009	<0.025	NC
LK-01-8-01	Total	8/9/05	0.014	<0.025	NC
LK-01-1-01	Total	8/9/05	0.010	<0.025	NC
LK-01-14-01	Total	8/9/05	0.011	<0.025	NC
LK-01-18-01	Total	8/9/05	0.008	<0.025	NC
LK-01-22-01	Total	8/9/05	0.025	<0.025	NC
LK-01-8-01	Total	8/9/05	0.012	<0.025	NC
LK-01-1-01	Total	9/7/05	0.011	<0.025	NC
LK-01-14-01	Total	9/7/05	0.006	<0.025	NC
LK-01-18-01	Total	9/7/05	0.007	<0.025	NC
LK-01-22-01	Total	9/7/05	0.012	<0.025	NC
LK-01-8-01	Total	9/7/05	0.010	<0.025	NC
LK-02-1	Total	6/29/05	0.013	<0.025	NC
LK-02-10	Total	6/29/05	0.010	<0.025	NC
LK-02-16	Total	6/29/05	0.009	<0.025	NC

Table B-3 Comparison of Method 4500PF to 365.2 (Total)

Sample ID		Date	Phosphorus (4500PF) Aquatic (mg/L)	Phosphorus (365.2) A&L (mg/L)	RPD
LK-02-22	Total	6/29/05	0.027	<0.025	NC
LK-02-1	Total	7/12/05	0.011	<0.025	NC
LK-02-10	Total	7/12/05	0.006	<0.025	NC
LK-02-22	Total	7/12/05	0.031	0.086	-93.2
LK-02-1-01	Total	7/26/05	0.012	<0.025	NC
LK-02-10-01	Total	7/26/05	0.015	<0.025	NC
LK-02-16-01	Total	7/26/05	0.007	0.031	-129.4
LK-02-22-01	Total	7/26/05	0.046	0.105	-78.1
LK-02-6-01	Total	7/26/05	0.013	<0.025	NC
LK-02-8-01	Total	7/26/05	0.013	<0.025	NC
LK-02-1-01	Total	8/23/05	0.017	<0.025	NC
LK-02-10-01	Total	8/23/05	0.011	<0.025	NC
LK-02-16-01	Total	8/23/05	0.013	<0.025	NC
LK-02-22-01	Total	8/23/05	0.092	0.086	7.0
LK-02-6-01	Total	8/23/05	0.016	<0.025	NC
LK-02-8-01	Total	8/23/05	0.012	<0.025	NC
LK-02-1-01	Total	8/9/05	0.011	0.031	-98.2
LK-02-10-01	Total	8/9/05	0.012	<0.025	NC
LK-02-16-01	Total	8/9/05	0.016	<0.025	NC
LK-02-22-01	Total	8/9/05	0.050	0.049	1.8
LK-02-6-01	Total	8/9/05	0.013	<0.025	NC
LK-02-8-01	Total	8/9/05	0.013	<0.025	NC
LK-02-1-01	Total	9/20/05	0.016	<0.025	NC
LK-02-10-1	Total	9/20/05	0.014	<0.025	NC
LK-02-16-01	Total	9/20/05	0.099	0.133	-29.0
LK-02-22-01	Total	9/20/05	0.278	0.281	-0.9
LK-02-6-01	Total	9/20/05	0.016	0.053	-105.1
LK-02-8-01	Total	9/20/05	0.015	<0.025	NC
LK-02-1-01	Total	9/7/05	0.013	<0.025	NC
LK-02-10-01	Total	9/7/05	0.013	<0.025	NC
LK-02-16-01	Total	9/7/05	0.016	<0.025	NC
LK-02-22-01	Total	9/7/05	0.093	0.179	-62.9
LK-02-6-01	Total	9/7/05	0.013	<0.025	NC
LK-02-8-01	Total	9/7/05	0.013	<0.025	NC
LK-03-1	Total	6/29/05	0.026	<0.025	NC
LK-03-3	Total	6/29/05	0.031	<0.025	NC
LK-03-5	Total	6/29/05	0.038	0.049	-24.7
LK-03-6	Total	6/29/05	0.038	0.049	-26.1
LK-03-1	Total	7/12/05	0.015	<0.025	NC
LK-03-3	Total	7/12/05	0.014	<0.025	NC
LK-03-6	Total	7/12/05	0.009	<0.025	NC
LK-03-1-01	Total	7/26/05	0.029	<0.025	NC
LK-03-3-01	Total	7/26/05	0.034	<0.025	NC
LK-03-6-01	Total	7/26/05	0.032	<0.025	NC
LK-03-1-01	Total	8/23/05	0.045	<0.025	NC
LK-03-3-01	Total	8/23/05	0.036	<0.025	NC
LK-03-6-01	Total	8/23/05	0.049	<0.025	NC
LK-03-1-03	Total	8/9/05	0.015	<0.025	NC
LK-03-1-01	Total	8/9/05	0.023	<0.025	NC
LK-03-3-01	Total	8/9/05	0.024	<0.025	NC
LK-03-6-01	Total	8/9/05	0.020	<0.025	NC
LK-03-1-03	Total	9/20/05	0.032	<0.025	NC
LK-03-1-01	Total	9/20/05	0.031	<0.025	NC
LK-03-3-01	Total	9/20/05	0.030	<0.025	NC
LK-03-4-01	Total	9/20/05	0.038	<0.025	NC

Table B-3 Comparison of Method 4500PF to 365.2 (Total)

Sample ID		Date	Phosphorus (4500PF) Aquatic (mg/L)	Phosphorus (365.2) A&L (mg/L)	RPD
LK-03-1-01	Total	9/7/05	0.006	<0.025	NC
LK-03-3-01	Total	9/7/05	0.024	<0.025	NC
LK-03-6-01	Total	9/7/05	0.031	<0.025	NC
LK-04-1-01	Total	7/26/05	0.142	0.124	13.2
LK-04-2-01	Total	7/26/05	0.142	0.161	-12.3
LK-04-4-01	Total	7/26/05	0.242	0.29	-18.1
LK-04-1-01	Total	8/23/05	0.115	0.142	-20.6
LK-04-2-01	Total	8/23/05	0.103	0.031	107.5
LK-04-4-01	Total	8/23/05	0.211	0.263	-21.8
LK-04-1-01	Total	8/9/05	0.090	0.105	-14.9
LK-04-2-01	Total	8/9/05	0.087	0.114	-26.5
LK-04-4-01	Total	8/9/05	0.120	0.216	-56.8
LK-04-1-01	Total	9/20/05	0.110	0.068	46.9
LK-04-2-01	Total	9/20/05	0.129	0.114	12.5
LK-04-1-01	Total	9/7/05	0.066	0.04	48.9
LK-04-2-01	Total	9/7/05	0.110	0.077	35.5
LK-04-4-01	Total	9/7/05	0.135	0.161	-17.7
RS-1	Total	6/28/05	0.032	0.049	-42.6
RS-1	Total	7/11/05	0.023	0.04	-53.9
RS-1-01	Total	7/25/05	0.029	<0.025	NC
RS-1-01	Total	8/24/05	0.037	0.04	-6.7
RS-1-01	Total	8/8/05	0.032	0.049	-41.9
RS-1-01	Total	9/19/05	0.038	<0.025	NC
RS-1-01	Total	9/6/05	0.034	0.031	9.1
RS-2	Total	6/28/05	0.029	<0.025	NC
RS-2	Total	7/11/05	0.018	0.031	-52.5
RS-2-01	Total	7/25/05	0.019	<0.025	NC
RS-2-01	Total	8/24/05	0.025	0.105	-122.0
RS-2-01	Total	8/8/05	0.019	<0.025	NC
RS-2-01	Total	9/20/05	0.027	<0.025	NC
RS-2-01	Total	9/6/05	0.023	<0.025	NC
RS-3	Total	6/28/05	0.074	0.086	-14.8
RS-3	Total	7/11/05	0.063	0.086	-31.6
RS-3-01	Total	7/25/05	0.077	0.068	12.4
RS-3-01	Total	8/24/05	0.091	<0.025	NC
RS-3-03	Total	8/8/05	0.073	0.04	58.5
RS-3-01	Total	8/8/05	0.067	0.059	12.7
RS-3-01	Total	9/19/05	0.080	0.077	3.3
RS-3-01	Total	9/6/05	0.077	0.096	-21.5

nc = not calculated

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
3	Dissolved	6/28/06	0.056	0.027	69.9
16837	Dissolved	8/15/06	0.011	0.012	8.7
16853	Dissolved	7/24/06	0.07	0.059	16.7
16861	Dissolved	7/20/06	0.022	0.021	2.3
16873	Dissolved	8/9/06	<0.01	0.008	NC
16911	Dissolved	7/13/06	0.013	0.003	132.9
23212	Dissolved	7/20/06	0.013	0.010	22.8
23242	Dissolved	7/13/06	0.016	0.007	82.8
24425	Dissolved	8/15/06	<0.01	0.007	NC
27983	Dissolved	7/19/06	0.024	0.021	14.3
37813	Dissolved	8/10/06	0.017	0.016	6.1
38742	Dissolved	7/20/06	<0.01	0.004	NC
50236	Dissolved	8/10/06	<0.01	0.004	NC
56287	Dissolved	7/13/06	0.03	0.021	35.0
89485	Dissolved	7/20/06	0.012	0.009	28.1
001JBF050806	Dissolved	6/27/06	0.011	0.001	166.7
001JBF050806Q	Dissolved	6/27/06	<0.01	0.003	NC
001RPH051806	Dissolved	6/27/06	0.091	0.014	146.7
002RPH051006	Dissolved	6/27/06	0.044	0.031	34.7
002X-060706	Dissolved	6/7/06	0.015	0.009	50.0
004RPH051806	Dissolved	6/27/06	0.049	0.035	33.3
005RPH051206	Dissolved	6/27/06	0.036	0.025	36.1
005RPH051806	Dissolved	6/27/06	0.022	0.007	103.4
012RPH	Dissolved	6/6/06	0.028	0.020	33.3
23999 M.KILLER	Dissolved	7/25/06	0.056	0.046	20.6
48576 M.SEYA	Dissolved	7/25/06	0.017	0.004	118.0
74867A	Dissolved	8/17/06	0.031	0.027	13.8
74867B	Dissolved	8/17/06	<0.01	0.007	NC
ANDERSONSP1	Dissolved	6/13/06	0.015	0.023	-42.1
BLFDSP-060706	Dissolved	6/7/06	0.055	0.048	13.6
BS-08-SW	Dissolved	8/23/05	0.055	0.019	98.4
BS-117-SW	Dissolved	9/14/05	0.029	0.022	26.7
BS-208-050107A	Dissolved	5/1/07	0.162	0.024	147.9
BS-208-SW	Dissolved	9/1/05	0.023	0.027	-17.6
BS-28-SW	Dissolved	8/23/05	0.059	0.017	110.4
BS-35-050207	Dissolved	5/2/07	0.031	0.025	22.7
BS-35-SW	Dissolved	9/22/05	0.014	0.007	60.8
BS-62A-050107A	Dissolved	5/1/07	0.203	0.050	120.8
BS-62A-SW	Dissolved	8/16/05	0.067	0.035	63.5
BS-68-050207	Dissolved	5/2/07	0.065	0.059	9.9
BS-68-SW	Dissolved	8/19/05	0.048	0.022	73.6
BS-HF04-050107A	Dissolved	5/1/07	1.34	1.375	-2.6
BS-HF04-SW	Dissolved	8/17/05	1.43	1.368	4.4
BS-HF22-050207	Dissolved	5/2/07	0.59	0.706	-17.9
BS-HF22-SW	Dissolved	8/24/05	1.118	1.055	5.8
BS-HF28A-SW	Dissolved	8/18/05	0.011	0.004	91.0
BS-REF1-SW	Dissolved	8/30/05	<0.01	0.005	NC
BS-REF2-SW	Dissolved	8/31/05	0.022	0.025	-14.5
BS-REF3-SW	Dissolved	9/1/05	0.018	0.025	-33.2
BS-REF3-SW-03	Dissolved	9/1/05	0.019	0.025	-28.0
CHARLES DYE	Dissolved	7/25/06	0.023	0.015	42.8
COLLINS WELL #1	Dissolved	7/7/06	<0.01	0.003	NC
D.ELLIS032	Dissolved	8/9/06	<0.01	0.002	NC
DAVISSPR-060706	Dissolved	6/7/06	0.035	0.028	22.2
DEBBIE HUGHES SPRING	Dissolved	6/28/06	0.039	0.027	36.4

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
DRISPR	Dissolved	6/27/06	0.066	0.044	40.0
ELMSPR	Dissolved	6/28/06	0.068	0.032	72.0
ELMSPRQ	Dissolved	6/28/06	0.039	0.032	19.7
EOF07-230-042407	Dissolved	4/24/07	1.04	1.120	-7.4
EOF07-232-042407	Dissolved	4/24/07	0.368	0.267	31.9
EOF07-LOR#1-042407	Dissolved	4/24/07	0.997	0.971	2.6
EOF-1	Dissolved	6/17/06	0.244	0.243	0.4
EOF-222-041307	Dissolved	4/13/07	1.6	0.236	148.5
EOF-259-041307	Dissolved	4/13/07	0.187	0.245	-26.7
EOF-CP-1A	Dissolved	3/31/08	0.521	0.657	-23.1
EOF-CP-1B	Dissolved	3/31/08	0.524	0.558	-6.2
EOF-Q1	Dissolved	6/17/06	0.661	0.640	3.2
EOF-Q2	Dissolved	6/17/06	0.135	0.121	10.9
EOF-Q3	Dissolved	6/18/06	0.367	0.566	-42.7
EOF-Q4	Dissolved	6/18/06	0.15	0.238	-45.4
EOFSPRD-26	Dissolved	4/25/06	0.456	0.522	-13.5
EOF-SPREAD 023	Dissolved	6/18/06	10.6	11.000	-3.7
EOF-SPREAD 025	Dissolved	6/18/06	0.059	0.041	36.0
EOF-SPREAD 044	Dissolved	6/18/06	0.056	0.118	-71.3
EOF-SPREAD 068	Dissolved	6/18/06	0.078	0.081	-3.8
EOF-SPREAD 073B	Dissolved	6/18/06	145	93.700	43.0
EOF-SPREAD-007	Dissolved	5/4/06	1.02	1.160	-12.8
EOF-SPREAD010	Dissolved	5/9/06	6.71	7.990	-17.4
EOF-SPREAD-025	Dissolved	5/4/06	0.812	0.869	-6.8
EOF-SPREAD048	Dissolved	5/9/06	1.14	1.330	-15.4
EOF-SPREAD048-Q	Dissolved	5/9/06	1.23	1.350	-9.3
EOF-SPREAD-053B	Dissolved	5/4/06	2.13	2.550	-17.9
EOF-SPREAD-064	Dissolved	5/4/06	7.58	8.840	-15.3
EOF-SPREAD-065	Dissolved	5/4/06	0.924	1.110	-18.3
EOF-SPREAD071	Dissolved	5/10/06	0.955	1.020	-6.6
EOF-SPREAD-17A-01	Dissolved	5/1/06	5.42	6.430	-17.0
EOF-SPREAD-26-01	Dissolved	4/29/06	0.385	0.431	-11.3
EOF-SPREAD-53E-01	Dissolved	4/29/06	21.6	20.800	3.8
EOF-SPREAD-53G	Dissolved	5/4/06	0.764	0.974	-24.2
EOF-SPREAD-59-01	Dissolved	4/29/06	0.446	0.494	-10.2
EOF-SPREAD-60-01	Dissolved	4/29/06	16.2	16.500	-1.8
EOF-SPREAD73E-1-01	Dissolved	6/22/06	0.225	0.165	30.8
FAC-16	Dissolved	12/4/07	191	212.550	-10.7
FAC-17	Dissolved	12/19/07	76.1	118.150	-43.3
FITE 500	Dissolved	8/10/06	<0.01	0.006	NC
FITE 501	Dissolved	8/10/06	<0.01	0.008	NC
GF1	Dissolved	3/9/06	0.336	0.415	-20.9
GLENN MILLER 1	Dissolved	7/13/06	0.015	0.005	103.6
GP-GW01-3	Dissolved	11/27/06	0.011	0.012	8.7
GP-GW06-062707	Dissolved	6/27/07	<0.01	<0.002	0.0
GP-GW08-25	Dissolved	11/29/06	<0.01	0.599	NC
GP-GW08-25Q	Dissolved	11/29/06	<0.01	0.002	NC
GP-GW09-11	Dissolved	11/30/06	0.012	0.630	192.5
GP-GW10-4	Dissolved	11/30/06	<0.01	0.500	NC
GP-GW14-062707	Dissolved	6/27/07	0.024	0.038	46.1
GP-GW18A-062607	Dissolved	6/26/07	<0.01	4.502	NC
GP-GW19-7	Dissolved	11/30/06	<0.01	0.515	NC
GP-GW20-6	Dissolved	11/30/06	0.019	0.469	184.4
GP-GW29-062807	Dissolved	6/28/07	<0.01	0.003	NC
GP-GW31-062807	Dissolved	6/28/07	0.018	0.006	103.3

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
GP-GW34-062607	Dissolved	6/26/07	0.015	0.039	88.9
GP-GW36-062607	Dissolved	6/26/07	<0.01	0.097	NC
GP-GW39-062707	Dissolved	6/27/07	0.013	0.006	78.7
GP-GW40-062707	Dissolved	6/27/07	<0.01	1.695	NC
PGPW-44-7	Dissolved	12/1/06	<0.01	0.020	NC
PGPW-48-11	Dissolved	12/1/06	<0.01	1.120	NC
GW-AMES-073007	Dissolved	7/30/07	0.022	0.011	63.7
GW-BEAVER-012207	Dissolved	1/22/07	<0.01	<0.002	0.0
GW-BECK-071007-01	Dissolved	7/10/07	0.034	0.035	3.5
GW-CHOATS-071107-01	Dissolved	7/11/07	0.054	0.053	2.1
GW-CHOATS-071107-03	Dissolved	7/11/07	0.05	0.052	3.4
GW-CRUZ-071107-01	Dissolved	7/11/07	0.066	0.059	10.4
GW-DIXON-071007-01	Dissolved	7/10/07	<0.01	0.007	NC
GW-E-AMES-012207	Dissolved	1/22/07	<0.01	0.005	NC
GW-IGO-012207	Dissolved	1/22/07	<0.01	0.006	NC
GW-JONES-012307	Dissolved	1/23/07	0.012	0.015	22.2
GW-KINDLE-012307	Dissolved	1/23/07	<0.01	<0.002	0.0
GW-KUELBS-062807	Dissolved	6/28/07	<0.01	<0.002	0.0
GW-KUSTENBORTER-071007	Dissolved	7/10/07	0.041	0.005	154.7
GW-MADEWELL-012307	Dissolved	1/23/07	<0.01	0.007	NC
GW-MCALPINE-012307	Dissolved	1/23/07	0.015	0.018	18.2
GW-MCCOY-012207	Dissolved	1/22/07	0.034	0.036	5.7
GW-REESE-012307	Dissolved	1/23/07	<0.01	<0.002	0.0
GW-ROSS-071007-01	Dissolved	7/10/07	0.013	0.007	66.5
GW-SEWELL-071107-01	Dissolved	7/11/07	<0.05	<0.002	0.0
GW-TURNER-071007-01	Dissolved	7/10/07	0.045	0.050	11.2
GW-VANCE-073007	Dissolved	7/30/07	0.013	0.003	128.0
HESTER 497	Dissolved	8/10/06	<0.01	0.011	NC
HESTER 498	Dissolved	8/10/06	<0.01	<0.002	0.0
HESTER SP1 060806	Dissolved	6/8/06	0.054	0.111	-69.1
HFS02	Dissolved	7/11/05	0.019	0.022	-14.2
HFS-02	Dissolved	6/8/06	0.046	0.042	9.1
HFS-02	Dissolved	5/6/06	0.103	0.075	31.5
HFS-02	Dissolved	5/10/06	0.183	0.162	12.2
HFS-02	Dissolved	5/1/06	0.224	0.224	0.0
HFS02-BF1-01	Dissolved	6/15/06	0.044	0.015	98.3
HFS02-BF2-01	Dissolved	8/27/05	0.056	0.021	90.3
HFS02-BF2-01	Dissolved	8/1/06	0.06	0.047	23.7
HFS-02-INITIAL	Dissolved	4/29/06	0.056	0.070	-22.2
HFS-02-PEAK	Dissolved	5/11/06	0.185	0.182	1.6
HFS-02-PEAK	Dissolved	5/4/06	0.21	0.190	10.0
HFS04	Dissolved	7/27/05	0.9	0.938	-4.2
HFS04	Dissolved	9/28/05	1.73	1.760	-1.7
HFS-04	Dissolved	5/31/06	0.859	0.905	-5.2
HFS-04	Dissolved	4/30/06	0.923	1.080	-15.7
HFS-04	Dissolved	5/6/06	0.961	1.040	-7.9
HFS-04	Dissolved	4/8/06	1.39	1.449	-4.2
HFS-04	Dissolved	3/10/06	1.63	1.895	-15.1
HFS-04	Dissolved	4/4/06	1.7	1.938	-13.1
HFS-04	Dissolved	4/26/06	2.15	2.400	-11.0
HFS-04 PEAK	Dissolved	5/31/06	0.843	1.020	-19.0
HFS-04 PEAK	Dissolved	3/10/06	1.49	1.696	-12.9
HFS04A	Dissolved	8/20/05	1.218	1.331	-8.9
HFS04-BF1-01	Dissolved	6/15/06	1.72	1.890	-9.4
HFS04-BF2-01	Dissolved	8/27/05	1.555	1.627	-4.6

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
HFS04-BF2-01	Dissolved	8/1/06	1.99	1.951	2.0
HFS-04-EVENT B	Dissolved	5/11/06	0.885	0.822	7.4
HFS05	Dissolved	9/28/05	0.077	0.023	107.1
HFS-05	Dissolved	3/22/06	0.034	0.005	148.3
HFS-05	Dissolved	4/26/06	0.046	0.065	-34.2
HFS-05	Dissolved	4/30/06	0.061	0.050	19.8
HFS-05	Dissolved	6/7/06	0.069	0.049	33.9
HFS-05	Dissolved	5/6/06	0.07	0.044	45.6
HFS-05	Dissolved	5/31/06	0.121	0.129	-6.4
HFS-05	Dissolved	4/3/06	0.125	0.015	156.3
HFS-05 PEAK	Dissolved	3/22/06	0.024	0.006	125.4
HFS05-BF1-01	Dissolved	6/15/06	0.054	0.051	5.7
HFS05-BF2-01	Dissolved	8/29/05	0.048	0.050	-3.4
HFS05-BF2-01	Dissolved	8/1/06	0.05	0.046	7.7
HFS-05-EVENT B	Dissolved	5/11/06	0.057	0.054	5.4
HFS-05-EVENT B-Q	Dissolved	5/11/06	0.06	0.054	10.5
HFS-05-PEAK	Dissolved	4/29/06	0.061	0.049	21.8
HFS-05-PEAK	Dissolved	4/26/06	0.094	0.096	-2.1
HFS08-BF2-01	Dissolved	8/28/05	0.038	<0.002	NC
HFS14	Dissolved	7/23/05	<0.01	0.006	NC
HFS-14	Dissolved	4/7/06	0.104	0.101	2.6
HFS-14	Dissolved	5/10/06	0.179	0.182	-1.7
HFS-14	Dissolved	3/10/06	0.22	0.269	-20.0
HFS-14	Dissolved	6/5/06	0.318	0.283	11.6
HFS-14	Dissolved	4/25/06	0.371	0.414	-11.0
HFS-14	Dissolved	5/31/06	0.86	0.970	-12.0
HFS-14 PEAK	Dissolved	4/7/06	0.168	0.155	8.1
HFS-14 PEAK	Dissolved	3/10/06	0.512	0.602	-16.1
HFS14-BF1-01	Dissolved	6/15/06	0.043	0.036	17.7
HFS14-BF2-01	Dissolved	8/27/05	0.031	<0.002	NC
HFS14-BF2-01	Dissolved	8/1/06	0.101	0.106	-4.5
HFS-14-PEAK	Dissolved	5/11/06	0.294	0.339	-14.2
HFS-14-PEAK	Dissolved	4/25/06	0.417	0.451	-7.8
HFS16	Dissolved	7/13/05	0.08	0.068	16.7
HFS16	Dissolved	8/14/05	0.19	0.241	-23.6
HFS16	Dissolved	9/15/05	0.256	0.275	-7.1
HFS-16	Dissolved	5/2/06	0.03	0.040	-28.6
HFS-16	Dissolved	3/10/06	0.043	0.051	-16.1
HFS-16	Dissolved	4/25/06	0.094	0.101	-7.2
HFS-16	Dissolved	5/31/06	0.159	0.156	1.9
HFS16-BF1-01	Dissolved	6/15/06	0.051	0.046	10.3
HFS16-BF2-01	Dissolved	8/27/05	0.133	0.112	17.4
HFS16-BF2-03	Dissolved	8/27/05	0.135	0.111	19.3
HFS-16-PEAK	Dissolved	5/1/06	0.034	0.048	-34.1
HFS20	Dissolved	8/14/05	0.09	0.046	65.7
HFS20	Dissolved	7/26/05	0.305	0.317	-3.7
HFS-20	Dissolved	4/3/06	0.021	0.006	115.8
HFS-20	Dissolved	3/10/06	0.024	0.038	-44.1
HFS-20	Dissolved	4/26/06	0.044	0.050	-12.8
HFS-20	Dissolved	4/30/06	0.05	0.046	8.3
HFS-20	Dissolved	4/7/06	<0.01	0.006	NC
HFS-20 EVENT B	Dissolved	5/31/06	0.104	0.118	-12.6
HFS-20 PEAK	Dissolved	4/3/06	0.02	0.008	90.1
HFS20-BF1-01	Dissolved	6/15/06	0.033	0.031	6.3
HFS20-BF2-01	Dissolved	8/27/05	0.064	0.056	14.1

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
HFS20-BF2-01	Dissolved	8/1/06	0.098	0.076	25.0
HFS-20-EVENT A	Dissolved	5/9/06	0.362	0.328	9.9
HFS-20-EVENT B	Dissolved	5/10/06	0.524	0.493	6.1
HFS-20-LEADING EDGE	Dissolved	5/4/06	0.068	0.010	148.7
HFS-20-PLATEAU	Dissolved	5/6/06	0.043	0.020	73.0
HFS21	Dissolved	9/28/05	0.073	0.014	133.7
HFS21	Dissolved	9/16/05	0.077	0.040	62.3
HFS21	Dissolved	8/14/05	0.096	0.044	73.9
HFS21	Dissolved	8/20/05	0.173	0.193	-11.0
HFS-21	Dissolved	3/21/06	0.018	0.006	105.4
HFS-21	Dissolved	4/3/06	0.023	0.013	56.3
HFS-21	Dissolved	5/31/06	0.048	0.039	20.7
HFS-21	Dissolved	4/30/06	0.085	0.067	23.7
HFS-21	Dissolved	5/5/06	0.158	0.138	13.5
HFS-21	Dissolved	4/26/06	<0.01	0.012	NC
HFS-21A	Dissolved	4/6/06	0.013	0.012	5.8
HFS-21B	Dissolved	4/7/06	0.152	0.164	-7.5
HFS21-BF1-01	Dissolved	6/15/06	0.029	0.034	-15.9
HFS-21-EVENT A	Dissolved	5/9/06	0.052	0.033	44.7
HFS-21-EVENT B	Dissolved	5/10/06	0.047	0.041	13.6
HFS-21-PEAK	Dissolved	4/26/06	0.021	0.036	-52.6
HFS-21-PEAK	Dissolved	5/4/06	0.137	0.151	-9.7
HFS22	Dissolved	9/15/05	0.055	0.051	7.7
HFS-22	Dissolved	5/6/06	0.219	0.227	-3.6
HFS-22	Dissolved	4/30/06	0.554	0.571	-3.0
HFS-22	Dissolved	4/4/06	0.577	0.621	-7.3
HFS-22	Dissolved	3/22/06	0.715	0.713	0.3
HFS-22	Dissolved	4/27/06	1.76	2.060	-15.7
HFS-22 PEAK	Dissolved	4/4/06	0.725	0.760	-4.7
HFS-22 PEAK	Dissolved	3/22/06	0.99	1.006	-1.6
HFS22-BF1-01	Dissolved	6/15/06	0.89	0.934	-4.8
HFS22-BF2-01	Dissolved	8/28/05	1.374	1.206	13.0
HFS22-BF2-01	Dissolved	8/1/06	1.92	1.892	1.5
HFS-22-EVENT A	Dissolved	5/10/06	0.372	0.328	12.6
HFS-22-EVENT B	Dissolved	5/11/06	0.253	0.270	-6.5
HFS-22-PEAK	Dissolved	4/27/06	1.94	2.340	-18.7
HFS23	Dissolved	7/16/05	0.043	0.040	6.6
HFS23	Dissolved	7/23/05	0.072	0.076	-6.0
HFS23	Dissolved	9/25/05	0.087	0.043	66.8
HFS23	Dissolved	9/16/05	0.104	0.015	148.4
HFS-23	Dissolved	4/8/06	0.045	0.043	4.8
HFS-23	Dissolved	4/4/06	0.048	0.038	22.4
HFS-23	Dissolved	3/22/06	0.061	0.024	87.2
HFS-23	Dissolved	5/11/06	0.065	0.074	-12.9
HFS-23	Dissolved	4/30/06	0.092	0.086	6.7
HFS-23	Dissolved	6/7/06	0.108	0.082	27.4
HFS-23	Dissolved	5/31/06	0.11	0.103	6.6
HFS-23	Dissolved	4/27/06	0.326	0.369	-12.4
HFS23A	Dissolved	8/14/05	0.028	0.017	49.8
HFS23-BF1-01	Dissolved	6/15/06	0.039	0.046	-16.5
HFS23-BF2-01	Dissolved	8/1/06	0.027	0.024	12.9
HFS23-BF2-01	Dissolved	8/28/05	0.029	0.021	30.0
HFS-23G	Dissolved	5/4/06	0.143	0.151	-5.4
HFS-23-PEAK	Dissolved	5/10/06	0.079	0.080	-1.3
HFS-23-PEAK	Dissolved	4/27/06	0.092	0.100	-8.3

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
HFS26-BF2-01	Dissolved	8/27/05	0.014	0.007	67.9
HFS-28A	Dissolved	4/30/06	0.013	0.015	-14.3
HFS-28A	Dissolved	4/25/06	0.021	0.012	54.5
HFS-28A	Dissolved	6/7/06	0.065	0.036	57.4
HFS-28A 5/10	Dissolved	5/10/06	0.094	0.115	-20.1
HFS-28A 5/5	Dissolved	5/5/06	0.055	0.060	-8.7
HFS28A-BF1-01	Dissolved	6/15/06	0.012	0.018	-40.0
HFS28A-BF2-01	Dissolved	8/28/05	0.018	0.015	16.5
HFS28A-BF2-01	Dissolved	8/1/06	0.026	0.022	18.1
HFS-28A-LEADING EDGE	Dissolved	5/4/06	0.013	0.020	-42.4
HFS-28A-RISING LIMB	Dissolved	4/29/06	0.011	0.011	0.0
HFS-28A-TAIL	Dissolved	4/26/06	<0.01	0.013	NC
HFS-29	Dissolved	3/10/06	0.028	0.032	-14.4
HFS-29	Dissolved	4/7/06	0.052	0.006	156.1
HFS-29	Dissolved	4/24/06	0.054	0.053	1.9
HFS-29	Dissolved	5/5/06	0.137	0.151	-9.7
HFS-29 PEAK	Dissolved	4/7/06	0.057	0.062	-8.7
HFS29-BF1-01	Dissolved	6/15/06	0.027	0.028	-3.6
HFS29-BF1-03	Dissolved	6/15/06	0.033	0.027	20.0
HFS29-BF2-01	Dissolved	8/1/06	0.033	0.025	26.2
HFS29-BF2-03	Dissolved	8/1/06	0.03	0.026	15.6
HFS-29-EVENT A	Dissolved	5/10/06	0.05	0.048	4.1
HFS-29-EVENT B	Dissolved	5/10/06	0.103	0.091	12.4
HFS-30	Dissolved	4/30/06	0.012	0.016	-28.6
HFS-30	Dissolved	5/31/06	0.016	0.011	37.0
HFS-30	Dissolved	4/24/06	0.022	0.015	37.8
HFS-30	Dissolved	5/11/06	0.022	0.024	-8.7
HFS-30	Dissolved	5/4/06	0.087	0.082	5.9
HFS-30 TAIL	Dissolved	4/26/06	0.014	0.009	43.5
HFS-30-050307A	Dissolved	5/3/07	0.012	0.012	0.3
HFS30-BF1-01	Dissolved	6/15/06	0.011	0.017	-42.9
HFS30-BF2-01	Dissolved	8/1/06	0.025	0.022	13.3
HFS-30-PEAK	Dissolved	4/29/06	0.01	0.018	-57.1
HUESTIS	Dissolved	7/20/06	0.025	0.025	0.3
JIM LINGA	Dissolved	7/24/06	0.023	0.005	131.3
JULSPR	Dissolved	6/27/06	0.027	0.018	40.0
KEYSPR-060606	Dissolved	6/6/06	0.055	0.048	13.6
KIRSPR-060706	Dissolved	6/7/06	0.012	0.005	82.4
L.CHRISTIE	Dissolved	7/20/06	0.03	0.030	0.0
LAL15GW1	Dissolved	7/11/06	<0.01	0.002	NC
LAL15GW1Q	Dissolved	7/11/06	0.015	0.004	117.5
LAL15SP2	Dissolved	7/11/06	0.032	0.033	-3.1
LAL16-GW1	Dissolved	7/18/06	<0.01	<0.002	0.0
LAL16-GW2	Dissolved	7/18/06	0.01	<0.002	NC
LAL16-SP1	Dissolved	7/18/06	0.026	0.017	42.4
LAL16-SP2	Dissolved	7/18/06	5.3	6.105	-14.1
LINCOLN WWTP-01	Dissolved	4/2/08	0.162	0.195	-18.7
LINCOLN WWTP-03	Dissolved	4/2/08	0.147	0.188	-24.5
LIWSPR	Dissolved	6/28/06	0.092	0.079	15.2
LK-01-0-01	Dissolved	5/17/06	<0.01	0.003	NC
LK-01-0-01	Dissolved	6/14/06	<0.01	0.005	NC
LK-01-0-01	Dissolved	7/13/06	<0.01	0.004	NC
LK-01-0-01	Dissolved	8/9/06	<0.01	0.003	NC
LK-01-0-01	Dissolved	9/26/06	<0.01	0.007	NC
LK-01-10-01	Dissolved	8/9/06	0.015	0.003	125.3

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
LK-01-1-01	Dissolved	7/26/05	<0.01	0.004	NC
LK-01-1-01	Dissolved	8/24/05	<0.01	0.004	NC
LK-01-1-01	Dissolved	8/9/05	<0.01	0.004	NC
LK-01-1-01	Dissolved	9/20/05	<0.01	0.003	NC
LK-01-1-01	Dissolved	9/7/05	<0.01	0.005	NC
LK-01-13-01	Dissolved	5/17/06	<0.01	<0.002	NC
LK-01-14-01	Dissolved	7/26/05	<0.01	0.003	NC
LK-01-14-01	Dissolved	8/24/05	<0.01	0.003	NC
LK-01-14-01	Dissolved	8/9/05	<0.01	0.003	NC
LK-01-14-01	Dissolved	9/20/05	<0.01	0.002	NC
LK-01-14-01	Dissolved	9/7/05	<0.01	0.002	NC
LK-01-15-01	Dissolved	6/14/06	<0.01	0.004	NC
LK-01-18-01	Dissolved	8/9/06	0.022	0.003	152.2
LK-01-19-01	Dissolved	6/14/06	<0.01	0.004	NC
LK-01-20-01	Dissolved	7/13/06	<0.01	0.003	NC
LK-01-21-01	Dissolved	5/17/06	<0.01	<0.002	NC
LK-01-22-01	Dissolved	8/24/05	<0.01	0.008	NC
LK-01-22-01	Dissolved	9/20/05	<0.01	0.005	NC
LK-01-22-01	Dissolved	9/7/05	<0.01	0.005	NC
LK-01-25-01	Dissolved	7/26/05	<0.01	0.003	NC
LK-01-25-01	Dissolved	8/9/05	<0.01	0.007	NC
LK-01-8-01	Dissolved	7/13/06	<0.01	0.004	NC
LK-01-9-01	Dissolved	6/14/06	<0.01	0.004	NC
LK-02-0-01	Dissolved	8/9/06	0.027	0.003	159.7
LK-02-0-01	Dissolved	5/16/06	<0.01	0.006	NC
LK-02-0-01	Dissolved	6/14/06	<0.01	0.004	NC
LK-02-0-01	Dissolved	7/13/06	<0.01	0.003	NC
LK-02-0-01	Dissolved	9/26/06	<0.01	0.008	NC
LK-02-10-01	Dissolved	8/9/06	0.012	0.003	118.7
LK-02-10-01	Dissolved	7/26/05	<0.01	0.006	NC
LK-02-10-01	Dissolved	8/23/05	<0.01	0.004	NC
LK-02-10-01	Dissolved	8/9/05	<0.01	0.012	NC
LK-02-10-01	Dissolved	9/7/05	<0.01	0.004	NC
LK-02-1-01	Dissolved	7/26/05	<0.01	0.005	NC
LK-02-1-01	Dissolved	8/23/05	<0.01	0.005	NC
LK-02-1-01	Dissolved	8/9/05	<0.01	0.010	NC
LK-02-1-01	Dissolved	9/20/05	<0.01	0.003	NC
LK-02-1-01	Dissolved	9/7/05	<0.01	0.004	NC
LK-02-10-1	Dissolved	9/20/05	<0.01	0.005	NC
LK-02-14-01	Dissolved	5/16/06	<0.01	0.005	NC
LK-02-17-01	Dissolved	8/9/06	0.016	0.005	99.2
LK-02-18-01	Dissolved	7/13/06	0.019	0.012	47.8
LK-02-18-01	Dissolved	6/14/06	<0.01	0.007	NC
LK-02-19-01	Dissolved	5/16/06	<0.01	0.004	NC
LK-02-20-01	Dissolved	6/14/06	0.013	0.007	60.0
LK-02-22-01	Dissolved	8/9/05	0.014	0.018	-27.5
LK-02-22-01	Dissolved	8/23/05	0.018	0.028	-43.3
LK-02-22-01	Dissolved	7/26/05	0.032	0.026	19.9
LK-02-22-01	Dissolved	9/7/05	0.168	0.066	87.5
LK-02-22-01	Dissolved	9/20/05	0.203	0.009	183.4
LK-02-9-01	Dissolved	7/13/06	0.011	0.004	102.6
LK-02-9-01	Dissolved	6/14/06	<0.01	0.004	NC
LK-03-0-01	Dissolved	7/13/06	0.013	0.005	96.4
LK-03-0-01	Dissolved	8/9/06	0.014	0.004	114.0
LK-03-0-01	Dissolved	5/16/06	0.02	0.018	10.5

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
LK-03-0-01	Dissolved	6/14/06	<0.01	0.008	NC
LK-03-0-01	Dissolved	9/26/06	<0.01	0.010	NC
LK-03-1-01	Dissolved	7/26/05	<0.01	0.004	NC
LK-03-1-01	Dissolved	8/23/05	<0.01	0.009	NC
LK-03-1-01	Dissolved	8/9/05	<0.01	0.005	NC
LK-03-1-01	Dissolved	9/20/05	<0.01	0.006	NC
LK-03-1-01	Dissolved	9/7/05	<0.01	0.006	NC
LK-03-1-03	Dissolved	8/9/05	<0.01	0.005	NC
LK-03-1-03	Dissolved	9/20/05	<0.01	0.007	NC
LK-03-3-01	Dissolved	7/26/05	<0.01	0.006	NC
LK-03-3-01	Dissolved	8/23/05	<0.01	0.008	NC
LK-03-3-01	Dissolved	8/9/05	<0.01	0.004	NC
LK-03-3-01	Dissolved	8/9/06	<0.01	0.003	NC
LK-03-3-01	Dissolved	9/20/05	<0.01	0.005	NC
LK-03-3-01	Dissolved	9/7/05	<0.01	0.007	NC
LK-03-4-01	Dissolved	9/20/05	0.011	0.009	23.6
LK-03-6-01	Dissolved	5/16/06	0.012	0.016	-28.6
LK-03-6-01	Dissolved	8/9/06	0.016	0.004	120.9
LK-03-6-01	Dissolved	6/14/06	<0.01	0.003	NC
LK-03-6-01	Dissolved	7/13/06	<0.01	0.003	NC
LK-03-6-01	Dissolved	7/26/05	<0.01	0.005	NC
LK-03-6-01	Dissolved	8/23/05	<0.01	0.005	NC
LK-03-6-01	Dissolved	8/9/05	<0.01	0.004	NC
LK-03-6-01	Dissolved	9/7/05	<0.01	0.005	NC
LK-03-6-03	Dissolved	5/16/06	0.017	0.015	12.5
LK-04-0-01	Dissolved	7/13/06	0.019	0.025	-26.3
LK-04-0-01	Dissolved	5/16/06	0.047	0.045	4.3
LK-04-0-01	Dissolved	8/9/06	0.062	0.049	24.3
LK-04-0-01	Dissolved	9/26/06	0.105	0.107	-1.9
LK-04-0-01	Dissolved	6/14/06	<0.01	0.012	NC
LK-04-1-01	Dissolved	9/7/05	0.022	0.019	16.3
LK-04-1-01	Dissolved	8/9/05	0.032	0.036	-10.6
LK-04-1-01	Dissolved	9/20/05	0.048	0.047	3.0
LK-04-1-01	Dissolved	8/23/05	0.05	0.060	-18.1
LK-04-1-01	Dissolved	7/26/05	0.051	0.050	2.3
LK-04-2-01	Dissolved	8/9/05	0.025	0.040	-46.2
LK-04-2-01	Dissolved	9/7/05	0.04	0.037	6.9
LK-04-2-01	Dissolved	7/26/05	0.049	0.052	-6.9
LK-04-2-01	Dissolved	9/20/05	0.05	0.049	2.5
LK-04-2-01	Dissolved	8/23/05	0.056	0.068	-19.0
LK-04-3-01	Dissolved	8/9/06	0.052	0.043	19.6
LK-04-4-01	Dissolved	9/7/05	0.042	0.042	0.5
LK-04-4-01	Dissolved	8/9/05	0.053	0.056	-4.8
LK-04-4-01	Dissolved	8/23/05	0.07	0.066	5.4
LK-04-4-01	Dissolved	7/26/05	0.076	0.075	0.9
LK-04-6-01	Dissolved	7/13/06	0.052	0.041	23.7
LK-04-6-01	Dissolved	6/14/06	0.072	0.072	0.0
LOC-01	Dissolved	4/7/06	0.024	1.834	-194.8
LOGSPR	Dissolved	6/28/06	0.085	0.028	100.9
M.DAVENPORT	Dissolved	7/24/06	0.022	0.005	123.6
MAN-BC-20D	Dissolved	3/31/08	22.6	29.163	-25.4
MAN-BC-20D	Dissolved	3/31/08	43.1	53.214	-21.0
MAN-BC-20F	Dissolved	3/31/08	25.1	32.349	-25.2
MAN-BC-21D	Dissolved	3/31/08	10.1	14.947	-38.7
MAN-BC-21F	Dissolved	3/31/08	13.3	25.442	-62.7

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
MAN-BC-22D	Dissolved	4/1/08	19	26.411	-32.6
MAN-BC-22F	Dissolved	4/1/08	34.3	44.623	-26.2
MAN-BC-22F	Dissolved	4/1/08	83	109.395	-27.4
MAN-BC-23D	Dissolved	4/2/08	31.7	42.792	-29.8
MAN-BC-23F	Dissolved	4/2/08	37.3	49.204	-27.5
MARTH GUINN	Dissolved	7/25/06	0.036	0.025	37.7
MCGRUDDEN WELL #1	Dissolved	7/7/06	0.027	0.022	20.4
OKSLR 499	Dissolved	8/10/06	<0.01	0.004	NC
OSASPR	Dissolved	8/10/06	0.029	0.017	52.2
OSBORN	Dissolved	7/20/06	0.014	0.014	0.9
ROGERS 75100	Dissolved	8/10/06	0.019	0.015	23.5
ROGERS WWTP	Dissolved	4/1/08	0.0663	0.064	4.0
RS-10003	Dissolved	8/14/06	<0.01	0.011	NC
RS-10004	Dissolved	8/14/06	<0.01	0.004	NC
RS-10004-052107	Dissolved	5/21/07	0.017	0.003	133.7
RS-1-01	Dissolved	8/24/05	0.02	0.034	-52.0
RS-1-01	Dissolved	7/12/06	0.026	0.024	8.6
RS-1-01	Dissolved	8/8/05	0.029	0.032	-10.7
RS-1-01	Dissolved	6/13/06	0.033	0.026	23.7
RS-1-01	Dissolved	9/19/05	0.033	0.033	1.1
RS-1-01	Dissolved	7/25/05	0.034	0.033	3.6
RS-1-01	Dissolved	9/6/05	0.034	0.034	0.7
RS-1-01	Dissolved	5/15/06	0.035	0.033	5.9
RS-1-01	Dissolved	9/25/06	0.036	0.037	-2.7
RS-1-01	Dissolved	8/8/06	0.046	0.023	66.3
RS-1-03	Dissolved	7/12/06	0.024	0.024	-0.6
RS-1-03	Dissolved	6/13/06	0.034	0.026	26.7
RS-1-03	Dissolved	8/8/06	0.046	0.023	67.5
RS-109-050207	Dissolved	5/2/07	0.12	0.134	-11.2
RS-120-B10	Dissolved	8/9/06	0.191	0.192	-0.5
RS-121-B10	Dissolved	8/10/06	0.452	0.441	2.5
RS-122-050307A	Dissolved	5/3/07	0.079	0.083	-5.0
RS-133-052107	Dissolved	5/21/07	0.033	0.016	71.3
RS-137	Dissolved	8/11/06	0.065	0.057	13.1
RS-148	Dissolved	8/10/06	0.019	0.014	30.3
RS-150	Dissolved	8/10/06	0.044	0.041	7.1
RS-150-050307A	Dissolved	5/3/07	0.029	0.029	1.1
RS-160-050307A	Dissolved	5/3/07	0.051	0.053	-3.2
RS-19	Dissolved	8/14/06	0.023	0.015	42.1
RS-2-01	Dissolved	7/12/06	0.015	0.015	-3.3
RS-2-01	Dissolved	9/20/05	0.018	0.017	3.8
RS-2-01	Dissolved	8/8/05	0.021	0.019	11.7
RS-2-01	Dissolved	7/25/05	0.022	0.018	19.6
RS-2-01	Dissolved	9/6/05	0.022	0.023	-2.7
RS-2-01	Dissolved	6/13/06	0.023	0.015	42.1
RS-2-01	Dissolved	8/10/06	0.03	0.016	60.9
RS-2-01	Dissolved	5/15/06	0.034	0.029	15.9
RS-2-01	Dissolved	9/25/06	0.035	0.039	-10.8
RS-2-01	Dissolved	8/24/05	<0.01	0.018	NC
RS-225	Dissolved	8/11/06	0.016	0.011	37.0
RS-233-052107	Dissolved	5/21/07	0.1	0.086	15.1
RS-28	Dissolved	8/14/06	0.025	0.030	-18.2
RS-286-B10	Dissolved	8/9/06	0.015	0.010	40.0
RS-297-052107	Dissolved	5/21/07	0.11	0.028	119.6
RS-3-01	Dissolved	7/12/06	0.06	0.059	2.0

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
RS-3-01	Dissolved	9/19/05	0.063	0.064	-2.2
RS-3-01	Dissolved	7/25/05	0.065	0.069	-5.6
RS-3-01	Dissolved	8/8/05	0.067	0.065	2.6
RS-3-01	Dissolved	9/6/05	0.069	0.070	-0.8
RS-3-01	Dissolved	8/24/05	0.07	0.082	-15.9
RS-3-01	Dissolved	6/13/06	0.071	0.061	15.2
RS-3-01	Dissolved	5/15/06	0.077	0.069	11.0
RS-3-01	Dissolved	8/10/06	0.083	0.067	21.3
RS-3-01	Dissolved	9/25/06	0.166	0.138	18.4
RS-31	Dissolved	8/16/06	0.1	0.116	-14.8
RS-312-050207A	Dissolved	5/2/07	0.037	0.031	16.2
RS-312-B10	Dissolved	8/9/06	0.057	0.050	13.1
RS-336	Dissolved	8/16/06	0.023	0.023	0.0
RS-336-051007	Dissolved	5/10/07	0.171	0.052	106.6
RS-340	Dissolved	8/15/06	0.063	0.074	-16.1
RS-345	Dissolved	8/11/06	0.319	0.275	14.8
RS-349	Dissolved	8/11/06	0.307	0.296	3.6
RS-350	Dissolved	8/16/06	0.302	0.328	-8.3
RS-386-050207	Dissolved	5/2/07	0.105	0.086	20.3
RS-395	Dissolved	8/10/06	0.069	0.062	10.7
RS-399-05027	Dissolved	5/2/07	0.064	0.057	11.2
RS-402-052107	Dissolved	5/21/07	0.022	0.007	102.9
RS-43	Dissolved	8/11/06	0.07	0.062	12.1
RS-43-052107	Dissolved	5/21/07	0.052	0.038	31.2
RS-433A-050207	Dissolved	5/2/07	0.072	0.076	-5.6
RS-548	Dissolved	8/15/06	0.04	0.027	38.8
RS-57	Dissolved	8/11/06	0.033	0.025	27.6
RS-574-B10	Dissolved	8/10/06	0.199	0.187	6.2
RS-577-B10	Dissolved	8/10/06	0.048	0.041	15.7
RS-578-050207A	Dissolved	5/2/07	0.061	0.054	12.4
RS-578-B10	Dissolved	8/10/06	0.068	0.059	14.2
RS-625-B10	Dissolved	8/10/06	0.059	0.049	18.5
RS-630	Dissolved	8/11/06	0.149	0.176	-16.6
RS-662	Dissolved	8/15/06	<0.01	0.009	NC
RS-667-050107A	Dissolved	5/1/07	0.168	0.019	159.4
RS-682-050207	Dissolved	5/2/07	0.057	0.059	-3.6
RS-696-052107	Dissolved	5/21/07	0.021	0.007	100.8
RS-704-050207A	Dissolved	5/2/07	0.064	0.058	10.5
RS-704-050207A-03	Dissolved	5/2/07	0.063	0.058	7.9
RS-704-B10	Dissolved	8/8/06	0.076	0.068	11.1
RS-706-B10	Dissolved	8/9/06	0.013	0.010	26.1
RS-7198000-B10	Dissolved	8/9/06	0.012	0.064	-136.8
RS-72-052107	Dissolved	5/21/07	0.046	0.033	32.9
RS-728-050207A	Dissolved	5/2/07	0.389	0.469	-18.6
RS-75-050807	Dissolved	5/8/07	0.238	0.133	56.7
RS-75-050807-03	Dissolved	5/8/07	0.247	0.132	60.8
RS-757-050107A	Dissolved	5/1/07	0.207	0.061	108.4
RS-75-B10	Dissolved	8/10/06	0.315	0.350	-10.5
RS-770	Dissolved	8/11/06	0.039	0.034	13.7
RS-770-050107A	Dissolved	5/1/07	0.16	0.020	155.4
RS-793-050307A	Dissolved	5/3/07	0.333	0.352	-5.4
RS-795-050107A	Dissolved	5/1/07	0.162	0.015	165.1
RS-86-B10	Dissolved	8/10/06	0.024	0.016	40.0
RS-901-B10	Dissolved	8/9/06	0.579	0.638	-9.7
RS-902-050107A	Dissolved	5/1/07	0.44	0.343	24.7

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
RS-97-052107	Dissolved	5/21/07	0.033	0.019	55.5
RS-BALLARD-ARK	Dissolved	5/5/06	0.11	0.065	51.4
RS-FLYCREEK	Dissolved	5/5/06	0.095	0.092	3.2
RS-ILLRIVER-01	Dissolved	4/30/06	0.12	0.132	-9.5
RS-OSAGE	Dissolved	5/5/06	0.191	0.209	-9.0
RS-PRICECREEK-01	Dissolved	4/29/06	0.112	0.130	-14.9
RS-TYNER	Dissolved	5/5/06	0.025	0.008	103.0
SALSPR	Dissolved	6/28/06	0.405	0.389	4.0
SILOAM WWTP	Dissolved	3/31/08	2.67	2.890	-7.9
SP-JONES-012307	Dissolved	1/23/07	0.055	0.053	3.7
SPREAD 30-01	Dissolved	3/31/06	1.7	0.025	194.2
SPREAD 31-01	Dissolved	4/7/06	0.173	0.201	-14.8
SPREAD-002	Dissolved	4/25/06	0.024	0.024	0.0
SPREAD-007	Dissolved	4/25/06	0.044	0.069	-44.2
SPREAD-023	Dissolved	4/25/06	14.7	12.900	13.0
SPREAD-029	Dissolved	4/25/06	0.917	0.892	2.8
SPREAD-036	Dissolved	4/25/06	5.69	6.010	-5.5
SPREAD-36Q	Dissolved	4/25/06	5.7	6.170	-7.9
SPREAD-52	Dissolved	4/25/06	0.758	0.371	68.6
SPRINGDALE WWTP	Dissolved	3/31/08	0.0681	0.073	-7.3
SP-VANCE-073007	Dissolved	7/30/07	0.02	0.018	7.9
TYLSPR	Dissolved	6/27/06	0.027	0.009	100.0
ZPEOF-001	Dissolved	4/25/06	0.522	0.582	-10.9
ZPEOF-30	Dissolved	4/25/06	0.293	0.343	-15.7
3	Total	6/28/06	0.035	0.028	-22.2
16837	Total	8/15/06	0.015	0.019	23.5
16853	Total	7/24/06	0.081	0.060	-30.0
16861	Total	7/20/06	0.023	0.023	0.7
16873	Total	8/9/06	ND	0.008	NC
16911	Total	7/13/06	ND	0.005	NC
23212	Total	7/20/06	0.014	0.012	-14.9
23242	Total	7/13/06	ND	0.014	NC
24425	Total	8/15/06	ND	0.010	NC
27983	Total	7/19/06	0.025	0.022	-15.0
37813	Total	8/10/06	0.016	0.018	11.8
38742	Total	7/20/06	ND	0.004	NC
50236	Total	8/10/06	ND	0.008	NC
56287	Total	7/13/06	0.030	0.030	-0.2
89485	Total	7/20/06	0.017	0.012	-33.3
001JBF050806	Total	6/27/06	0.018	0.005	-113.0
001JBF050806Q	Total	6/27/06	0.016	0.007	-78.3
001RPH051806	Total	6/27/06	0.023	0.031	29.6
002RPH051006	Total	6/27/06	0.049	0.032	-42.0
002X-060706	Total	6/7/06	0.021	0.033	44.4
004RPH051806	Total	6/27/06	0.143	0.127	-11.9
005RPH051206	Total	6/27/06	0.034	0.027	-23.0
005RPH051806	Total	6/27/06	0.022	0.012	-58.8
012RPH	Total	6/6/06	0.042	0.050	17.4
23999 M.KILLER	Total	7/25/06	0.059	0.046	-24.4
48576 M.SEYA	Total	7/25/06	0.024	0.005	-132.3
74867A	Total	8/17/06	0.031	0.029	-6.7
74867B	Total	8/17/06	0.031	0.023	-29.6
ANDERSONSP1	Total	6/13/06	0.014	0.025	56.4
BLFDSP-060706	Total	6/7/06	0.066	0.074	11.4
BS-08-SW	Total	8/23/05	0.041	0.021	-65.9

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
BS-117-SW	Total	9/14/05	0.035	0.038	8.2
BS-208-050107A	Total	5/1/07	0.169	0.027	-145.5
BS-208-SW	Total	9/1/05	0.033	0.031	-6.5
BS-28-SW	Total	8/23/05	0.053	0.029	-59.0
BS-35-050207	Total	5/2/07	0.032	0.041	24.4
BS-35-SW	Total	9/22/05	0.024	0.022	-9.1
BS-62A-050107A	Total	5/1/07	0.209	0.065	-105.1
BS-62A-SW	Total	8/16/05	0.088	0.068	-26.0
BS-68-050207	Total	5/2/07	0.059	0.062	5.4
BS-68-SW	Total	8/19/05	0.063	0.034	-59.3
BS-HF04-050107A	Total	5/1/07	1.38	1.455	5.3
BS-HF04-SW	Total	8/17/05	1.516	1.397	-8.1
BS-HF22-050207	Total	5/2/07	0.599	0.718	18.1
BS-HF22-SW	Total	8/24/05	1.09	1.077	-1.2
BS-HF28A-SW	Total	8/18/05	0.029	0.009	-102.6
BS-REF1-SW	Total	8/30/05	0.026	0.005	-132.2
BS-REF2-SW	Total	8/31/05	0.043	0.028	-41.5
BS-REF3-SW	Total	9/1/05	0.039	0.026	-39.9
BS-REF3-SW-03	Total	9/1/05	0.055	0.026	-72.0
CHARLES DYE	Total	7/25/06	0.023	0.015	-39.3
COLLINS WELL #1	Total	7/7/06	ND	0.003	NC
D.ELLIS032	Total	8/9/06	ND	0.004	NC
DAVISSPR-060706	Total	6/7/06	0.034	0.031	-9.2
DEBBIE HUGHES SPRING	Total	6/28/06	0.044	0.027	-47.9
DRISPR	Total	6/27/06	0.059	0.045	-26.9
ELMSPR	Total	6/28/06	0.037	0.032	-14.5
ELMSPRQ	Total	6/28/06	0.034	0.033	-3.0
EOF07-230-042407	Total	4/24/07	1.19	1.156	-2.9
EOF07-232-042407	Total	4/24/07	0.69	1.054	41.7
EOF07-LOR#1-042407	Total	4/24/07	1.52	3.203	71.3
EOF-1	Total	6/17/06	0.564	0.442	-24.3
EOF-222-041307	Total	4/13/07	2.15	0.940	-78.3
EOF-259-041307	Total	4/13/07	0.699	0.881	23.0
EOF-CP-1A	Total	3/31/08	0.671	0.957	35.1
EOF-CP-1B	Total	3/31/08	0.982	1.247	23.8
EOF-Q1	Total	6/17/06	0.808	0.921	13.1
EOF-Q2	Total	6/17/06	1.47	1.770	18.5
EOF-Q3	Total	6/18/06	0.752	0.652	-14.2
EOF-Q4	Total	6/18/06	0.319	0.383	18.2
EOFSPRD-26	Total	4/25/06	1.51	1.400	-7.6
EOF-SPREAD 023	Total	6/18/06	11.2	11.600	3.5
EOF-SPREAD 025	Total	6/18/06	0.075	0.074	-1.3
EOF-SPREAD 044	Total	6/18/06	0.087	0.188	73.5
EOF-SPREAD 068	Total	6/18/06	0.156	0.772	132.8
EOF-SPREAD 073B	Total	6/18/06	134	190.000	34.6
EOF-SPREAD-007	Total	5/4/06	1.07	1.970	59.2
EOF-SPREAD010	Total	5/9/06	7.82	9.240	16.6
EOF-SPREAD-025	Total	5/4/06	0.907	0.982	7.9
EOF-SPREAD048	Total	5/9/06	1.42	1.530	7.5
EOF-SPREAD048-Q	Total	5/9/06	1.53	2.320	41.0
EOF-SPREAD-053B	Total	5/4/06	2.38	2.820	16.9
EOF-SPREAD-064	Total	5/4/06	8.52	11.300	28.1
EOF-SPREAD-065	Total	5/4/06	1	1.160	14.8
EOF-SPREAD071	Total	5/10/06	1.06	1.060	0.0
EOF-SPREAD-17A-01	Total	5/1/06	5.38	15.500	96.9

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
EOF-SPREAD-26-01	Total	4/29/06	0.905	1.840	68.1
EOF-SPREAD-53E-01	Total	4/29/06	23.6	25.800	8.9
EOF-SPREAD-53G	Total	5/4/06	0.876	1.150	27.0
EOF-SPREAD-59-01	Total	4/29/06	0.583	0.570	-2.3
EOF-SPREAD-60-01	Total	4/29/06	19.1	25.700	29.5
EOF-SPREAD73E-1-01	Total	6/22/06	0.251	0.274	8.8
FITE 500	Total	8/10/06	0.099	0.065	-41.5
FITE 501	Total	8/10/06	<0.01	0.010	NC
GF1	Total	3/9/06	0.482	0.901	60.6
GLENN MILLER 1	Total	7/13/06	0.010	0.007	-35.0
GP-GW01-3	Total	11/27/06	1.290	23.700	179.4
GP-GW06-062707	Total	6/27/07	0.549	16.839	187.4
GP-GW08-25	Total	11/29/06	0.016	74.000	199.9
GP-GW08-25Q	Total	11/29/06	2.350	4.170	55.8
GP-GW09-11	Total	11/30/06	4.270	103.000	184.1
GP-GW10-4	Total	11/30/06	1.240	137.000	196.4
GP-GW14-062707	Total	6/27/07	4.990	59.559	169.1
GP-GW18A-062607	Total	6/26/07	5.490	172.355	187.7
GP-GW19-7	Total	11/30/06	0.210	111.000	199.2
GP-GW20-6	Total	11/30/06	6.190	166.000	185.6
GP-GW29-062807	Total	6/28/07	0.868	7.335	157.7
GP-GW31-062807	Total	6/28/07	5.170	34.687	148.1
GP-GW34-062607	Total	6/26/07	0.131	5.641	190.9
GP-GW36-062607	Total	6/26/07	0.876	8.947	164.3
GP-GW39-062707	Total	6/27/07	11.200	38.324	109.5
GP-GW40-062707	Total	6/27/07	24.600	91.841	115.5
PGPW-44-7	Total	12/1/06	0.053	41.700	199.5
PGPW-48-11	Total	12/1/06	6.900	134.000	180.4
GW-AMES-073007	Total	7/30/07	0.016	0.023	34.2
GW-BEAVER-012207	Total	1/22/07	ND	ND	NC
GW-BECK-071007-01	Total	7/10/07	0.033	0.044	28.7
GW-CHOATS-071107-01	Total	7/11/07	0.041	0.054	27.8
GW-CHOATS-071107-03	Total	7/11/07	0.042	0.055	27.5
GW-CRUZ-071107-01	Total	7/11/07	0.047	0.063	28.6
GW-DIXON-071007-01	Total	7/10/07	ND	0.007	NC
GW-E-AMES-012207	Total	1/22/07	ND	0.006	NC
GW-IGO-012207	Total	1/22/07	ND	0.007	NC
GW-JONES-012307	Total	1/23/07	0.028	0.056	66.7
GW-KINDLE-012307	Total	1/23/07	ND	ND	NC
GW-KUELBS-062807	Total	6/28/07	ND	0.002	NC
GW-KUSTENBORTER-071007	Total	7/10/07	ND	0.009	NC
GW-MADEWELL-012307	Total	1/23/07	0.016	0.008	-66.7
GW-MCALPINE-012307	Total	1/23/07	0.020	0.023	14.0
GW-MCCOY-012207	Total	1/22/07	0.033	0.036	8.7
GW-REESE-012307	Total	1/23/07	0.021	0.024	13.3
GW-ROSS-071007-01	Total	7/10/07	0.029	0.047	48.0
GW-SEWELL-071107-01	Total	7/11/07	0.050	0.002	-182.6
GW-TURNER-071007-01	Total	7/10/07	0.039	0.051	27.6
GW-VANCE-073007	Total	7/30/07	ND	0.018	NC
HESTER 497	Total	8/10/06	ND	0.011	NC
HESTER 498	Total	8/10/06	ND	0.003	NC
HESTER SP1 060806	Total	6/8/06	0.177	0.419	81.2
HFS02	Total	7/11/05	0.021	0.024	11.3
HFS-02	Total	6/8/06	0.115	0.055	-70.6
HFS-02	Total	5/6/06	0.129	0.099	-26.3

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
HFS-02	Total	5/1/06	0.258	0.248	-4.0
HFS-02	Total	5/10/06	0.607	0.179	-108.9
HFS02-BF1-01	Total	6/15/06	0.045	0.034	-27.8
HFS02-BF2-01	Total	8/1/06	0.052	0.051	-2.1
HFS02-BF2-01	Total	8/27/05	0.053	0.023	-77.7
HFS-02-INITIAL	Total	4/29/06	0.078	0.078	0.0
HFS-02-PEAK	Total	5/11/06	0.213	0.229	7.2
HFS-02-PEAK	Total	5/4/06	0.235	0.193	-19.6
HFS04	Total	7/27/05	0.896	0.950	5.9
HFS04	Total	9/28/05	1.695	1.897	11.2
HFS-04	Total	5/31/06	0.846	0.929	9.4
HFS-04	Total	4/30/06	0.975	1.110	12.9
HFS-04	Total	5/6/06	1.07	1.050	-1.9
HFS-04	Total	4/8/06	1.39	1.481	6.3
HFS-04	Total	3/10/06	1.65	1.952	16.8
HFS-04	Total	4/4/06	1.65	1.982	18.3
HFS-04	Total	4/26/06	2.26	2.440	7.7
HFS-04 PEAK	Total	5/31/06	0.879	1.050	17.7
HFS-04 PEAK	Total	3/10/06	1.45	1.832	23.3
HFS04-BF1-01	Total	6/15/06	1.73	1.920	10.4
HFS04-BF2-01	Total	8/27/05	1.509	1.640	8.3
HFS04-BF2-01	Total	8/1/06	2.03	2.014	-0.8
HFS-04-EVENT B	Total	5/11/06	1.13	0.841	-29.3
HFS05	Total	9/28/05	0.079	0.059	-29.4
HFS-05	Total	3/22/06	0.023	0.023	1.3
HFS-05	Total	4/3/06	0.039	0.041	4.9
HFS-05	Total	6/7/06	0.054	0.056	3.6
HFS-05	Total	4/26/06	0.068	0.082	18.7
HFS-05	Total	4/30/06	0.071	0.079	10.7
HFS-05	Total	5/6/06	0.118	0.046	-87.8
HFS-05	Total	5/31/06	0.13	0.143	9.5
HFS-05 PEAK	Total	3/22/06	0.023	0.014	-46.4
HFS05-BF1-01	Total	6/15/06	0.049	0.058	16.8
HFS05-BF2-01	Total	8/1/06	0.072	0.081	11.5
HFS-05-EVENT B	Total	5/11/06	0.082	0.084	2.4
HFS-05-EVENT B-Q	Total	5/11/06	0.134	0.097	-32.0
HFS-05-PEAK	Total	4/29/06	0.065	0.070	7.4
HFS-05-PEAK	Total	4/26/06	0.125	0.117	-6.6
HFS08-BF2-01	Total	8/28/05	0.031	0.022	-34.9
HFS14	Total	7/23/05	<0.01	0.006	NC
HFS-14	Total	4/7/06	0.118	0.110	-7.2
HFS-14	Total	5/10/06	0.222	0.215	-3.2
HFS-14	Total	3/10/06	0.236	0.271	13.7
HFS-14	Total	6/5/06	0.296	0.409	32.1
HFS-14	Total	4/25/06	0.4	0.449	11.5
HFS-14	Total	5/31/06	0.956	1.090	13.1
HFS-14 PEAK	Total	4/7/06	0.192	0.175	-9.3
HFS-14 PEAK	Total	3/10/06	0.576	0.627	8.5
HFS14-BF1-01	Total	6/15/06	0.051	0.052	1.9
HFS14-BF2-01	Total	8/27/05	0.037	0.021	-56.6
HFS14-BF2-01	Total	8/1/06	0.135	0.141	4.0
HFS-14-PEAK	Total	5/11/06	0.439	0.419	-4.7
HFS-14-PEAK	Total	4/25/06	0.451	0.478	5.8
HFS16	Total	7/13/05	0.101	0.080	-23.5
HFS16	Total	8/14/05	0.253	0.313	21.3

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
HFS16	Total	9/15/05	0.277	0.280	1.1
HFS-16	Total	5/2/06	0.036	0.050	32.6
HFS-16	Total	3/10/06	0.057	0.051	-10.8
HFS-16	Total	4/25/06	0.115	0.126	9.1
HFS-16	Total	5/31/06	0.15	0.177	16.5
HFS16-BF1-01	Total	6/15/06	0.136	0.135	-0.7
HFS16-BF2-01	Total	8/27/05	0.18	0.118	-41.3
HFS16-BF2-03	Total	8/27/05	0.179	0.126	-34.9
HFS-16-PEAK	Total	5/1/06	0.044	0.061	32.4
HFS20	Total	8/14/05	0.096	0.076	-23.9
HFS20	Total	7/26/05	0.316	0.327	3.3
HFS-20	Total	4/7/06	0.011	0.016	39.5
HFS-20	Total	4/3/06	0.018	0.018	1.3
HFS-20	Total	3/10/06	0.037	0.040	6.9
HFS-20	Total	4/30/06	0.049	0.062	23.4
HFS-20	Total	4/26/06	0.063	0.066	4.7
HFS-20 EVENT B	Total	5/31/06	0.121	0.145	18.0
HFS-20 PEAK	Total	4/3/06	0.035	0.034	-3.3
HFS20-BF1-01	Total	6/15/06	0.033	0.042	24.0
HFS20-BF2-01	Total	8/27/05	0.112	0.071	-44.4
HFS20-BF2-01	Total	8/1/06	0.154	0.187	19.3
HFS-20-EVENT A	Total	5/9/06	0.404	0.366	-9.9
HFS-20-EVENT B	Total	5/10/06	0.624	0.513	-19.5
HFS-20-LEADING EDGE	Total	5/4/06	0.109	0.033	-107.0
HFS-20-PLATEAU	Total	5/6/06	0.055	0.023	-82.1
HFS21	Total	9/16/05	0.065	0.067	2.4
HFS21	Total	9/28/05	0.067	0.040	-51.2
HFS21	Total	8/14/05	0.096	0.066	-37.7
HFS21	Total	8/20/05	0.201	0.197	-1.8
HFS-21	Total	3/21/06	0.013	0.017	24.4
HFS-21	Total	4/3/06	0.022	0.018	-18.4
HFS-21	Total	4/26/06	0.024	0.021	-13.3
HFS-21	Total	5/31/06	0.047	0.050	6.2
HFS-21	Total	4/30/06	0.093	0.082	-12.6
HFS-21	Total	5/5/06	0.185	0.140	-27.7
HFS-21A	Total	4/6/06	0.018	0.019	6.9
HFS-21B	Total	4/7/06	0.175	0.179	2.2
HFS21-BF1-01	Total	6/15/06	0.046	0.050	8.3
HFS-21-EVENT A	Total	5/9/06	0.041	0.041	0.0
HFS-21-EVENT B	Total	5/10/06	0.049	0.054	9.7
HFS-21-PEAK	Total	4/26/06	0.039	0.058	39.2
HFS-21-PEAK	Total	5/4/06	0.212	0.166	-24.3
HFS22	Total	9/15/05	0.062	0.062	0.6
HFS-22	Total	5/6/06	0.273	0.261	-4.5
HFS-22	Total	4/4/06	0.571	0.646	12.3
HFS-22	Total	4/30/06	0.59	0.596	1.0
HFS-22	Total	3/22/06	0.679	0.724	6.4
HFS-22	Total	4/27/06	1.79	2.100	15.9
HFS-22 PEAK	Total	4/4/06	0.681	0.784	14.1
HFS-22 PEAK	Total	3/22/06	0.952	1.012	6.1
HFS22-BF1-01	Total	6/15/06	0.923	0.976	5.6
HFS22-BF2-01	Total	8/28/05	1.472	1.310	-11.6
HFS22-BF2-01	Total	8/1/06	2.01	1.932	-4.0
HFS-22-EVENT A	Total	5/10/06	0.352	0.363	3.1
HFS-22-EVENT B	Total	5/11/06	0.34	0.281	-19.0

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
HFS-22-PEAK	Total	4/27/06	1.91	2.360	21.1
HFS23	Total	7/16/05	0.048	0.072	39.7
HFS23	Total	7/23/05	0.078	0.068	-14.4
HFS23	Total	9/25/05	0.147	0.143	-2.7
HFS23	Total	9/16/05	0.155	0.090	-52.8
HFS-23	Total	4/4/06	0.055	0.038	-35.8
HFS-23	Total	4/8/06	0.069	0.052	-27.7
HFS-23	Total	3/22/06	0.08	0.057	-33.7
HFS-23	Total	5/11/06	0.101	0.101	0.0
HFS-23	Total	4/30/06	0.106	0.143	29.7
HFS-23	Total	6/7/06	0.109	0.097	-11.7
HFS-23	Total	5/31/06	0.151	0.172	13.0
HFS-23	Total	4/27/06	0.352	0.398	12.3
HFS23A	Total	8/14/05	0.041	0.041	-0.4
HFS23-BF1-01	Total	6/15/06	0.065	0.086	27.8
HFS23-BF2-01	Total	8/1/06	0.059	0.070	16.6
HFS23-BF2-01	Total	8/28/05	0.071	0.087	20.2
HFS-23G	Total	5/4/06	0.195	0.235	18.6
HFS-23-PEAK	Total	4/27/06	0.141	0.162	13.9
HFS-23-PEAK	Total	5/10/06	0.141	0.127	-10.4
HFS-28A	Total	4/30/06	0.012	0.022	58.8
HFS-28A	Total	4/25/06	0.024	0.030	22.2
HFS-28A	Total	6/7/06	0.051	0.043	-17.0
HFS-28A 5/10	Total	5/10/06	0.137	0.315	78.8
HFS-28A 5/5	Total	5/5/06	0.083	0.066	-22.8
HFS28A-BF1-01	Total	6/15/06	0.015	0.019	23.5
HFS28A-BF2-01	Total	8/1/06	0.02	0.022	11.0
HFS-28A-LEADING EDGE	Total	5/4/06	0.055	0.038	-36.6
HFS-28A-RISING LIMB	Total	4/29/06	<0.01	0.021	NC
HFS-28A-TAIL	Total	4/26/06	<0.01	0.015	NC
HFS-29	Total	3/10/06	0.03	0.033	10.5
HFS-29	Total	4/7/06	0.045	0.020	-74.9
HFS-29	Total	4/24/06	0.055	0.061	10.3
HFS-29	Total	5/5/06	0.177	0.168	-5.2
HFS-29 PEAK	Total	4/7/06	0.065	0.063	-2.5
HFS29-BF1-01	Total	6/15/06	0.027	0.034	23.0
HFS29-BF1-03	Total	6/15/06	0.03	0.037	20.9
HFS29-BF2-01	Total	8/1/06	0.038	0.038	0.6
HFS29-BF2-03	Total	8/1/06	0.044	0.035	-22.3
HFS-29-EVENT A	Total	5/10/06	0.058	0.057	-1.7
HFS-29-EVENT B	Total	5/10/06	0.102	0.101	-1.0
HFS-30	Total	4/30/06	0.012	0.021	54.5
HFS-30	Total	5/31/06	0.018	0.019	5.4
HFS-30	Total	4/24/06	0.027	0.023	-16.0
HFS-30	Total	5/4/06	0.155	0.126	-20.6
HFS-30	Total	5/11/06	<0.01	0.037	NC
HFS-30 TAIL	Total	4/26/06	0.014	0.011	-24.0
HFS-30-050307A	Total	5/3/07	0.011	0.013	19.8
HFS30-BF1-01	Total	6/15/06	0.019	0.019	0.0
HFS30-BF2-01	Total	8/1/06	0.023	0.023	-1.7
HFS-30-PEAK	Total	4/29/06	0.012	0.020	50.0
HUESTIS	Total	7/20/06	0.031	0.026	-16.2
JIM LINGA	Total	7/24/06	0.030	0.007	-127.4
JULSPR	Total	6/27/06	0.029	0.018	-46.8
KEYSPR-060606	Total	6/6/06	0.051	0.051	0.0

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
KIRSPR-060706	Total	6/7/06	0.018	0.014	-25.0
L.CHRISTIE	Total	7/20/06	0.032	0.031	-4.0
LAL15GW1	Total	7/11/06	ND	0.003	NC
LAL15GW1Q	Total	7/11/06	ND	0.004	NC
LAL15SP2	Total	7/11/06	0.05	0.044	-12.4
LAL16-GW1	Total	7/18/06	0.010	ND	NC
LAL16-GW2	Total	7/18/06	0.012	ND	NC
LAL16-SP1	Total	7/18/06	0.03	0.048	45.5
LAL16-SP2	Total	7/18/06	5.42	6.197	13.4
LINCOLN WWTP-01	Total	4/2/08	0.188	0.236	22.6
LINCOLN WWTP-03	Total	4/2/08	0.172	0.219	24.2
LWSPR	Total	6/28/06	0.215	0.208	-3.3
LK-01-0-01	Total	9/26/06	<0.01	0.014	NC
LK-01-1-01	Total	9/7/05	0.014	0.011	-21.9
LK-01-1-01	Total	7/26/05	<0.01	0.009	NC
LK-01-1-01	Total	8/24/05	<0.01	0.012	NC
LK-01-1-01	Total	8/9/05	<0.01	0.009	NC
LK-01-1-01	Total	9/20/05	<0.01	0.011	NC
LK-01-14-01	Total	9/7/05	0.013	0.006	-69.6
LK-01-14-01	Total	7/26/05	<0.01	0.006	NC
LK-01-14-01	Total	8/24/05	<0.01	0.008	NC
LK-01-14-01	Total	8/9/05	<0.01	0.006	NC
LK-01-14-01	Total	9/20/05	<0.01	0.010	NC
LK-01-16-01	Total	9/26/06	<0.01	0.012	NC
LK-01-20-01	Total	9/26/06	0.015	0.020	28.6
LK-01-22-01	Total	9/20/05	0.021	0.025	16.0
LK-01-22-01	Total	9/7/05	0.026	0.012	-70.9
LK-01-22-01	Total	8/24/05	<0.01	0.009	NC
LK-01-25-01	Total	8/9/05	0.023	0.014	-45.6
LK-01-25-01	Total	7/26/05	<0.01	0.008	NC
LK-02-0-01	Total	9/26/06	0.012	0.017	34.5
LK-02-10-01	Total	9/7/05	0.013	0.013	-1.4
LK-02-10-01	Total	7/26/05	0.022	0.015	-35.2
LK-02-10-01	Total	8/23/05	<0.01	0.011	NC
LK-02-10-01	Total	8/9/05	<0.01	0.012	NC
LK-02-1-01	Total	9/20/05	0.013	0.016	22.9
LK-02-1-01	Total	9/7/05	0.015	0.013	-14.7
LK-02-1-01	Total	8/23/05	0.017	0.017	2.3
LK-02-1-01	Total	7/26/05	0.019	0.012	-42.7
LK-02-1-01	Total	8/9/05	<0.01	0.011	NC
LK-02-10-1	Total	9/20/05	0.017	0.014	-16.9
LK-02-16-01	Total	9/26/06	0.013	0.017	26.7
LK-02-19-01	Total	9/26/06	0.067	0.075	11.3
LK-02-22-01	Total	7/26/05	0.084	0.046	-58.4
LK-02-22-01	Total	8/9/05	0.102	0.050	-68.6
LK-02-22-01	Total	8/23/05	0.17	0.092	-59.3
LK-02-22-01	Total	9/7/05	0.201	0.093	-73.2
LK-02-22-01	Total	9/20/05	0.264	0.278	5.3
LK-03-0-01	Total	9/26/06	0.024	0.038	45.2
LK-03-1-01	Total	8/9/05	0.015	0.023	41.6
LK-03-1-01	Total	9/20/05	0.022	0.031	32.5
LK-03-1-01	Total	9/7/05	0.022	0.006	-117.1
LK-03-1-01	Total	7/26/05	0.027	0.029	8.7
LK-03-1-01	Total	8/23/05	0.03	0.045	39.3
LK-03-1-03	Total	8/9/05	0.012	0.015	19.2

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
LK-03-1-03	Total	9/20/05	0.023	0.032	31.9
LK-03-3-01	Total	8/9/05	0.012	0.024	65.3
LK-03-3-01	Total	9/20/05	0.016	0.030	59.8
LK-03-3-01	Total	9/7/05	0.023	0.024	2.6
LK-03-3-01	Total	7/26/05	0.026	0.034	27.0
LK-03-3-01	Total	8/23/05	0.03	0.036	17.5
LK-03-4-01	Total	9/20/05	0.023	0.038	48.6
LK-03-6-01	Total	9/7/05	0.018	0.031	53.8
LK-03-6-01	Total	7/26/05	0.029	0.032	8.4
LK-03-6-01	Total	8/9/05	0.032	0.020	-46.0
LK-03-6-01	Total	8/23/05	0.035	0.049	34.0
LK-04-0-01	Total	9/26/06	0.154	0.160	3.8
LK-04-1-01	Total	9/7/05	0.051	0.066	25.5
LK-04-1-01	Total	9/20/05	0.095	0.110	14.3
LK-04-1-01	Total	8/9/05	0.097	0.090	-7.0
LK-04-1-01	Total	7/26/05	0.101	0.142	33.4
LK-04-1-01	Total	8/23/05	0.108	0.115	6.7
LK-04-2-01	Total	9/7/05	0.074	0.110	39.3
LK-04-2-01	Total	8/9/05	0.08	0.087	8.7
LK-04-2-01	Total	9/20/05	0.089	0.129	36.8
LK-04-2-01	Total	8/23/05	0.101	0.103	2.0
LK-04-2-01	Total	7/26/05	0.108	0.142	27.5
LK-04-4-01	Total	9/7/05	0.084	0.135	46.4
LK-04-4-01	Total	8/9/05	0.133	0.120	-9.9
LK-04-4-01	Total	7/26/05	0.187	0.242	25.6
LK-04-4-01	Total	8/23/05	0.205	0.211	3.1
LOC-01	Total	4/7/06	0.093	2.230	184.0
LOGSPR	Total	6/28/06	0.043	0.029	-38.9
M.DAVENPORT	Total	7/24/06	0.027	0.007	-118.2
MARTH GUINN	Total	7/25/06	0.037	0.026	-36.4
MCGRUDDEN WELL #1	Total	7/7/06	0.159	0.173	8.4
OKSLR 499	Total	8/10/06	ND	0.004	NC
OSASPR	Total	8/10/06	0.029	0.018	-46.8
OSBORN	Total	7/20/06	0.021	0.016	-29.2
ROGERS 75100	Total	8/10/06	0.013	0.015	14.3
ROGERS WWTP	Total	4/1/08	0.164	0.231	33.8
RS-10003	Total	8/14/06	0.011	0.013	16.7
RS-10004	Total	8/14/06	<0.01	0.008	NC
RS-10004-052107	Total	5/21/07	0.02	0.007	-93.4
RS-1-01	Total	8/8/05	0.033	0.032	-3.0
RS-1-01	Total	6/13/06	0.034	0.033	-3.0
RS-1-01	Total	9/6/05	0.039	0.034	-13.8
RS-1-01	Total	8/24/05	0.04	0.037	-6.7
RS-1-01	Total	9/19/05	0.041	0.038	-6.6
RS-1-01	Total	7/12/06	0.043	0.031	-31.2
RS-1-01	Total	9/25/06	0.051	0.047	-8.2
RS-1-01	Total	8/8/06	0.052	0.037	-33.4
RS-1-01	Total	7/25/05	0.086	0.029	-99.3
RS-1-03	Total	7/12/06	0.029	0.032	11.2
RS-1-03	Total	6/13/06	0.036	0.031	-14.9
RS-1-03	Total	8/8/06	0.049	0.035	-32.4
RS-109-050207	Total	5/2/07	0.122	0.177	36.5
RS-120-B10	Total	8/9/06	0.214	0.206	-3.8
RS-121-B10	Total	8/10/06	0.454	0.442	-2.7
RS-122-050307A	Total	5/3/07	0.095	0.106	11.1

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
RS-133-052107	Total	5/21/07	0.044	0.032	-30.3
RS-137	Total	8/11/06	0.081	0.069	-16.0
RS-148	Total	8/10/06	0.027	0.020	-29.8
RS-150	Total	8/10/06	0.045	0.045	0.0
RS-150-050307A	Total	5/3/07	0.03	0.035	16.2
RS-160-050307A	Total	5/3/07	0.057	0.060	5.8
RS-19	Total	8/14/06	0.047	0.037	-23.8
RS-2-01	Total	8/8/05	0.018	0.019	7.5
RS-2-01	Total	9/20/05	0.023	0.027	17.2
RS-2-01	Total	8/24/05	0.025	0.025	1.7
RS-2-01	Total	9/6/05	0.027	0.023	-15.4
RS-2-01	Total	6/13/06	0.028	0.027	-3.6
RS-2-01	Total	8/10/06	0.033	0.027	-20.0
RS-2-01	Total	7/25/05	0.034	0.019	-58.8
RS-2-01	Total	7/12/06	0.037	0.025	-38.1
RS-2-01	Total	9/25/06	0.046	0.049	6.3
RS-225	Total	8/11/06	0.052	0.052	0.0
RS-233-052107	Total	5/21/07	0.15	0.146	-2.5
RS-28	Total	8/14/06	0.036	0.036	0.0
RS-286-B10	Total	8/9/06	0.017	0.011	-42.9
RS-297-052107	Total	5/21/07	0.107	0.047	-78.6
RS-3-01	Total	8/8/05	0.074	0.067	-10.0
RS-3-01	Total	9/6/05	0.077	0.077	0.5
RS-3-01	Total	9/19/05	0.078	0.080	2.0
RS-3-01	Total	7/12/06	0.083	0.077	-7.1
RS-3-01	Total	6/13/06	0.085	0.077	-9.9
RS-3-01	Total	8/24/05	0.088	0.091	3.0
RS-3-01	Total	8/10/06	0.09	0.096	6.5
RS-3-01	Total	7/25/05	0.091	0.077	-16.6
RS-3-01	Total	9/25/06	0.218	0.245	11.7
RS-3-03	Total	9/25/06	0.219	0.250	13.2
RS-31	Total	8/16/06	0.109	0.118	7.9
RS-312-050207A	Total	5/2/07	0.034	0.036	6.1
RS-312-B10	Total	8/9/06	0.057	0.051	-11.1
RS-336	Total	8/16/06	0.051	0.039	-26.7
RS-336-051007	Total	5/10/07	0.188	0.083	-77.2
RS-340	Total	8/15/06	0.102	0.089	-13.6
RS-345	Total	8/11/06	0.341	0.306	-10.8
RS-349	Total	8/11/06	0.35	0.331	-5.6
RS-350	Total	8/16/06	0.327	0.350	6.8
RS-386-050207	Total	5/2/07	0.104	0.108	3.9
RS-395	Total	8/10/06	0.071	0.064	-10.4
RS-399-05027	Total	5/2/07	0.096	0.098	1.8
RS-402-052107	Total	5/21/07	0.021	0.010	-70.1
RS-43	Total	8/11/06	0.088	0.084	-4.7
RS-43-052107	Total	5/21/07	0.063	0.056	-12.6
RS-433A-050207	Total	5/2/07	0.077	0.087	12.6
RS-548	Total	8/15/06	0.046	0.028	-48.6
RS-57	Total	8/11/06	0.041	0.035	-15.8
RS-574-B10	Total	8/10/06	0.242	0.229	-5.5
RS-577-B10	Total	8/10/06	0.06	0.061	1.7
RS-578-050207A	Total	5/2/07	0.064	0.067	4.3
RS-578-B10	Total	8/10/06	0.078	0.070	-10.8
RS-625-B10	Total	8/10/06	0.073	0.057	-24.6
RS-630	Total	8/11/06	0.224	0.192	-15.4

Table B-4 Comparison of Method 6020 to 4500-PF (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (4500PF) Aquatic (mg/L)	RPD
RS-662	Total	8/15/06	<0.01	0.010	NC
RS-667-050107A	Total	5/1/07	0.173	0.023	-152.6
RS-682-050207	Total	5/2/07	0.062	0.065	4.5
RS-696-052107	Total	5/21/07	0.032	0.014	-78.3
RS-704-050207A	Total	5/2/07	0.057	0.060	5.7
RS-704-050207A-03	Total	5/2/07	0.055	0.061	10.4
RS-704-B10	Total	8/8/06	0.076	0.069	-9.7
RS-706-B10	Total	8/9/06	0.024	0.021	-13.3
RS-7198000-B10	Total	8/9/06	0.023	0.092	120.0
RS-72-052107	Total	5/21/07	0.051	0.043	-16.8
RS-728-050207A	Total	5/2/07	0.404	0.511	23.5
RS-75-050807	Total	5/8/07	0.26	0.158	-48.6
RS-75-050807-03	Total	5/8/07	0.251	0.156	-46.5
RS-757-050107A	Total	5/1/07	0.225	0.088	-87.7
RS-75-B10	Total	8/10/06	0.337	0.352	4.4
RS-770	Total	8/11/06	0.043	0.036	-17.7
RS-770-050107A	Total	5/1/07	0.161	0.024	-147.5
RS-793-050307A	Total	5/3/07	0.388	0.434	11.1
RS-795-050107A	Total	5/1/07	0.162	0.020	-155.8
RS-86-B10	Total	8/10/06	0.044	0.029	-41.1
RS-901-B10	Total	8/9/06	0.632	0.648	2.5
RS-902-050107A	Total	5/1/07	0.481	0.347	-32.2
RS-97-052107	Total	5/21/07	0.046	0.020	-80.6
RS-BALLARD-ARK	Total	5/5/06	0.162	0.105	-42.7
RS-FLYCREEK	Total	5/5/06	0.144	0.103	-33.2
RS-ILLRIVER-01	Total	4/30/06	0.265	0.319	18.5
RS-OSAGE	Total	5/5/06	0.223	0.251	11.8
RS-PRICECREEK-01	Total	4/29/06	0.134	0.212	45.1
RS-STUNKARD-01	Total	4/19/06	0.09	0.103	13.1
RS-TYNER	Total	5/5/06	0.076	0.017	-126.9
SALSPR	Total	6/28/06	0.435	0.440	1.1
SILOAM WWTP	Total	3/31/08	2.9	3.298	12.9
SP-JONES-012307	Total	1/23/07	0.049	0.058	16.8
SPREAD 30-01	Total	3/31/06	2.07	0.106	-180.5
SPREAD 31-01	Total	4/7/06	0.294	0.298	1.3
SPREAD-002	Total	4/25/06	0.714	0.479	-39.4
SPREAD-007	Total	4/25/06	0.487	0.705	36.6
SPREAD-023	Total	4/25/06	16.4	13.440	-19.8
SPREAD-029	Total	4/25/06	1.34	1.200	-11.0
SPREAD-036	Total	4/25/06	5.87	6.120	4.2
SPREAD-36Q	Total	4/25/06	5.79	6.480	11.2
SPREAD-52	Total	4/25/06	0.549	0.704	24.7
SPRINGDALE WWTP	Total	3/31/08	119	0.148	-199.5
SP-VANCE-073007	Total	7/30/07	0.035	0.028	-22.2
TYLSPR	Total	6/27/06	0.032	0.041	24.7
ZPEOF-001	Total	4/25/06	1.55	1.120	-32.2
ZPEOF-30	Total	4/25/06	0.588	0.453	-25.9

nc = not calculated

Table B-5 Comparison of Method 6020 to 365.2 (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (365.2) A&L (mg/L)	RPD
BS-08-SW	Dissolved	8/23/05	0.055	0.031	55.8
BS-117-SW	Dissolved	9/14/05	0.029	<0.025	NC
BS-208-SW	Dissolved	9/1/05	0.023	0.059	-87.8
BS-28-SW	Dissolved	8/23/05	0.059	<0.025	NC
BS-35-SW	Dissolved	9/22/05	0.014	<0.025	NC
BS-62A-SW	Dissolved	8/16/05	0.067	0.053	23.3
BS-68-SW	Dissolved	8/19/05	0.048	0.04	18.2
BS-HF04-SW	Dissolved	8/17/05	1.43	0.663	73.3
BS-HF22-SW	Dissolved	8/24/05	1.118	1.014	9.8
BS-HF28A-SW	Dissolved	8/18/05	0.011	<0.025	NC
BS-REF1-SW	Dissolved	8/30/05	<0.01	<0.025	NC
BS-REF2-SW	Dissolved	8/31/05	0.022	<0.025	NC
BS-REF3-SW-03	Dissolved	9/1/05	0.019	<0.025	NC
BS-REF3-SW	Dissolved	9/1/05	0.018	<0.025	NC
GF1	Dissolved	3/9/06	0.336	0.42	-22.2
HFS02	Dissolved	7/11/05	0.019	<0.025	NC
HFS02-BF2-01	Dissolved	8/27/05	0.056	<0.025	NC
HFS02	Dissolved	9/16/05	0.047	0.04	16.1
HFS-04	Dissolved	3/10/06	1.63	1.73	-6.0
HFS-04 PEAK	Dissolved	3/10/06	1.49	1.68	-12.0
HFS04	Dissolved	7/27/05	0.9	0.828	8.3
HFS04A	Dissolved	8/20/05	1.218	0.216	139.7
HFS04B	Dissolved	8/20/05	1.246	0.733	51.8
HFS04-BF2-01	Dissolved	8/27/05	1.555	0.059	185.4
HFS 4	Dissolved	9/28/05	1.73	0.733	81.0
HFS05-BF2-01	Dissolved	8/29/05	0.048	0.126	-89.7
HFS05A	Dissolved	9/13/05	0.086	<0.025	NC
HFS05B	Dissolved	9/15/05	0.349	<0.025	NC
HFS 5	Dissolved	9/28/05	0.077	<0.025	NC
HFS 08	Dissolved	7/12/05	<0.01	<0.025	NC
HFS08-BF2-01	Dissolved	8/28/05	0.038	0.07	-59.3
HFS-14	Dissolved	3/10/06	0.22	0.226	-2.7
HFS-14 PEAK	Dissolved	3/10/06	0.512	0.541	-5.5
HFS14	Dissolved	7/23/05	<0.01	<0.025	NC
HFS14-BF2-01	Dissolved	8/27/05	0.031	0.046	-39.0
HFS-16	Dissolved	3/10/06	0.043	<0.025	NC
HFS16	Dissolved	7/13/05	0.08	0.068	16.2
HFS16	Dissolved	8/14/05	0.19	0.244	-24.9
HFS16-BF2-03	Dissolved	8/27/05	0.135	0.141	-4.3
HFS16-BF2-01	Dissolved	8/27/05	0.133	0.157	-16.6
HFS16	Dissolved	9/15/05	0.256	0.253	1.2
HFS-20	Dissolved	3/10/06	0.024	<0.025	NC
HFS20	Dissolved	7/10/05	0.032	0.031	3.2
HFS20	Dissolved	7/26/05	0.305	0.337	-10.0
HFS20	Dissolved	8/14/05	0.09	0.072	22.2
HFS20-BF2-01	Dissolved	8/27/05	0.064	0.11	-52.9
HFS20	Dissolved	9/16/05	0.059	0.035	51.1
HFS-21	Dissolved	3/9/06	0.031	0.031	0.0
HFS-22	Dissolved	7/10/05	0.041	0.031	27.8
HFS-23	Dissolved	8/14/05	0.096	0.068	34.1
HFS-24	Dissolved	8/20/05	0.173	0.151	13.6
HFS-25	Dissolved	9/16/05	0.077	0.031	85.2
HFS-26	Dissolved	9/28/05	0.073	<0.025	NC
HFS22-BF2-01	Dissolved	8/28/05	1.374	0.094	174.4
HFS22	Dissolved	9/15/05	0.055	0.035	44.4

Table B-5 Comparison of Method 6020 to 365.2 (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (365.2) A&L (mg/L)	RPD
HFS23	Dissolved	7/16/05	0.043	0.04	7.2
HFS23	Dissolved	7/23/05	0.072	0.068	5.7
HFS23A	Dissolved	8/14/05	0.028	<0.025	NC
HFS23B	Dissolved	8/14/05	<0.01	<0.025	NC
HFS23-BF2-01	Dissolved	8/28/05	0.029	0.107	-114.7
HFS23	Dissolved	9/16/05	0.104	0.049	71.9
HFS 23	Dissolved	9/25/05	0.087	0.027	105.3
HFS 26	Dissolved	7/7/05	<0.01	<0.025	NC
HFS26-BF2-01	Dissolved	8/27/05	0.014	0.031	-75.6
HFS28A-BF2-01	Dissolved	8/28/05	0.018	0.068	-116.3
HFS-29	Dissolved	3/10/06	0.028	0.049	-54.5
LK-01-1-01	Dissolved	7/26/05	<0.01	<0.025	NC
LK-01-14-01	Dissolved	7/26/05	<0.01	<0.025	NC
LK-01-25-01	Dissolved	7/26/05	<0.01	<0.025	NC
LK-01-1-01	Dissolved	8/24/05	<0.01	<0.025	NC
LK-01-14-01	Dissolved	8/24/05	<0.01	<0.025	NC
LK-01-22-01	Dissolved	8/24/05	<0.01	<0.025	NC
LK-01-1-01	Dissolved	8/9/05	<0.01	<0.025	NC
LK-01-14-01	Dissolved	8/9/05	<0.01	<0.025	NC
LK-01-25-01	Dissolved	8/9/05	<0.01	<0.025	NC
LK-01-1-01	Dissolved	9/20/05	<0.01	<0.025	NC
LK-01-14-01	Dissolved	9/20/05	<0.01	<0.025	NC
LK-01-22-01	Dissolved	9/20/05	<0.01	<0.025	NC
LK-01-1-01	Dissolved	9/7/05	<0.01	<0.025	NC
LK-01-14-01	Dissolved	9/7/05	<0.01	<0.025	NC
LK-01-22-01	Dissolved	9/7/05	<0.01	<0.025	NC
LK-02-1-01	Dissolved	7/26/05	<0.01	<0.025	NC
LK-02-10-01	Dissolved	7/26/05	<0.01	<0.025	NC
LK-02-22-01	Dissolved	7/26/05	0.032	<0.025	NC
LK-02-1-01	Dissolved	8/23/05	<0.01	<0.025	NC
LK-02-10-01	Dissolved	8/23/05	<0.01	<0.025	NC
LK-02-22-01	Dissolved	8/23/05	0.018	<0.025	NC
LK-02-1-01	Dissolved	8/9/05	<0.01	<0.025	NC
LK-02-10-01	Dissolved	8/9/05	<0.01	<0.025	NC
LK-02-22-01	Dissolved	8/9/05	0.014	<0.025	NC
LK-02-1-01	Dissolved	9/20/05	<0.01	<0.025	NC
LK-02-10-01	Dissolved	9/20/05	<0.01	<0.025	NC
LK-02-22-01	Dissolved	9/20/05	0.203	0.194	4.5
LK-02-1-01	Dissolved	9/7/05	<0.01	<0.025	NC
LK-02-10-01	Dissolved	9/7/05	<0.01	<0.025	NC
LK-02-22-01	Dissolved	9/7/05	0.168	0.124	30.1
LK-03-1-03	Dissolved	7/26/05	<0.01	<0.025	NC
LK-03-1-01	Dissolved	7/26/05	<0.01	<0.025	NC
LK-03-3-01	Dissolved	7/26/05	<0.01	<0.025	NC
LK-03-6-01	Dissolved	7/26/05	<0.01	<0.025	NC
LK-03-1-03	Dissolved	8/23/05	<0.01	<0.025	NC
LK-03-1-01	Dissolved	8/23/05	<0.01	<0.025	NC
LK-03-3-01	Dissolved	8/23/05	<0.01	<0.025	NC
LK-03-6-01	Dissolved	8/23/05	<0.01	<0.025	NC
LK-03-1-03	Dissolved	8/9/05	<0.01	<0.025	NC
LK-03-1-01	Dissolved	8/9/05	<0.01	<0.025	NC
LK-03-3-01	Dissolved	8/9/05	<0.01	<0.025	NC
LK-03-6-01	Dissolved	8/9/05	<0.01	<0.025	NC
LK-03-1-03	Dissolved	9/20/05	<0.01	<0.025	NC
LK-03-1-01	Dissolved	9/20/05	<0.01	<0.025	NC

Table B-5 Comparison of Method 6020 to 365.2 (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (365.2) A&L (mg/L)	RPD
LK-03-3-01	Dissolved	9/20/05	<0.01	<0.025	NC
LK-03-4-01	Dissolved	9/20/05	0.011	<0.025	NC
LK-03-1-03	Dissolved	9/7/05	<0.01	<0.025	NC
LK-03-1-01	Dissolved	9/7/05	<0.01	<0.025	NC
LK-03-3-01	Dissolved	9/7/05	<0.01	<0.025	NC
LK-03-6-01	Dissolved	9/7/05	<0.01	<0.025	NC
LK-04-1-01	Dissolved	7/26/05	0.051	0.059	-14.5
LK-04-2-01	Dissolved	7/26/05	0.049	0.049	0.0
LK-04-4-01	Dissolved	7/26/05	0.076	0.077	-1.3
LK-04-1-01	Dissolved	8/23/05	0.05	0.059	-16.5
LK-04-2-01	Dissolved	8/23/05	0.056	<0.025	NC
LK-04-4-01	Dissolved	8/23/05	0.07	0.086	-20.5
LK-04-1-01	Dissolved	8/9/05	0.032	<0.025	NC
LK-04-2-01	Dissolved	8/9/05	0.025	0.04	-46.2
LK-04-4-01	Dissolved	8/9/05	0.053	<0.025	NC
LK-04-1-01	Dissolved	9/20/05	0.048	<0.025	NC
LK-04-2-01	Dissolved	9/20/05	0.05	<0.025	NC
LK-04-1-01	Dissolved	9/7/05	0.022	<0.025	NC
LK-04-2-01	Dissolved	9/7/05	0.04	<0.025	NC
LK-04-4-01	Dissolved	9/7/05	0.042	0.031	30.1
RS-1-01	Dissolved	7/25/05	0.034	<0.025	NC
RS-1-01	Dissolved	8/24/05	0.02	<0.025	NC
RS-1-01	Dissolved	8/8/05	0.029	<0.025	NC
RS-1-01	Dissolved	9/19/05	0.033	0.035	-5.9
RS-1-01	Dissolved	9/6/05	0.034	<0.025	NC
RS-2-01	Dissolved	7/25/05	0.022	0.031	-34.0
RS-2-01	Dissolved	8/24/05	<0.01	<0.025	NC
RS-2-01	Dissolved	8/8/05	0.021	<0.025	NC
RS-2-01	Dissolved	9/20/05	0.018	<0.025	NC
RS-2-01	Dissolved	9/6/05	0.022	0.077	-111.1
RS-3-01	Dissolved	7/25/05	0.065	0.068	-4.5
RS-3-01	Dissolved	8/24/05	0.07	0.086	-20.5
RS-3-01	Dissolved	8/8/05	0.067	0.059	12.7
RS-3-01	Dissolved	9/19/05	0.063	<0.025	NC
RS-3-01	Dissolved	9/6/05	0.069	0.077	-11.0
BS-08-SW	Total	8/23/05	0.041	<0.025	NC
BS-117-SW	Total	9/14/05	0.035	0.049	-33.3
BS-208-SW	Total	9/1/05	0.033	0.031	6.3
BS-28-SW	Total	8/23/05	0.053	<0.025	NC
BS-35-SW	Total	9/22/05	0.024	<0.025	NC
BS-62A-SW	Total	8/16/05	0.088	0.086	2.3
BS-68-SW	Total	8/19/05	0.063	0.031	68.1
BS-HF04-S	Total	8/17/05	1.516	0.733	69.6
BS-HF22-S	Total	8/24/05	1.09	1.014	7.2
BS-HF28A-	Total	8/18/05	0.029	<0.025	NC
BS-REF1-S	Total	8/30/05	0.026	0.049	-61.3
BS-REF2-S	Total	8/31/05	0.043	<0.025	NC
BS-REF3-S	Total	9/1/05	0.055	<0.025	NC
BS-REF3-S	Total	9/1/05	0.039	0.031	22.9
GF1	Total	3/9/06	0.482	0.61	-23.4
HFS02	Total	7/11/05	0.021	0.04	-62.3
HFS02	Total	8/27/05	0.053	0.049	7.8
HFS02	Total	9/16/05	0.037	0.086	-79.7
HFS-04	Total	3/10/06	1.65	1.08	41.8
HFS-04 PEAK	Total	3/10/06	1.45	0.849	52.3

Table B-5 Comparison of Method 6020 to 365.2 (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (365.2) A&L (mg/L)	RPD
HFS04	Total	7/27/05	0.896	0.921	-2.8
HFS04A	Total	8/20/05	1.283	0.226	140.1
HFS04B	Total	8/20/05	1.33	0.617	73.2
HFS04-BF2-01	Total	8/27/05	1.509	0.086	178.4
HFS 4	Total	9/28/05	1.695	1.034	48.4
HFS-05	Total	3/22/06	0.023	<0.025	NC
HFS-05	Total	3/22/06	0.023	<0.025	NC
HFS05-BF2-01	Total	8/29/05	0.048	0.149	-102.5
HFS05A	Total	9/13/05	0.122	0.086	34.6
HFS05B	Total	9/15/05	0.05	<0.025	NC
HFS 5	Total	9/28/05	0.079	<0.025	NC
HFS 08	Total	7/12/05	<0.01	<0.025	NC
HFS08-BF2-01	Total	8/28/05	0.031	0.094	-100.8
HFS-14	Total	3/10/06	0.236	0.606	-87.9
HFS-14 PEAK	Total	3/10/06	0.576	0.578	-0.3
HFS14	Total	7/23/05	<0.01	<0.025	NC
HFS14-BF2-01	Total	8/27/05	0.037	0.138	-115.4
HFS-16	Total	3/10/06	0.057	0.053	7.3
HFS16	Total	7/13/05	0.101	0.077	27.0
HFS16	Total	8/14/05	0.253	0.29	-13.6
HFS16-BF2-03	Total	8/27/05	0.179	0.205	-13.5
HFS16-BF2-01	Total	8/27/05	0.18	0.205	-13.0
HFS16	Total	9/15/05	0.277	0.263	5.2
HFS-20	Total	3/10/06	0.037	<0.025	NC
HFS20	Total	7/10/05	0.053	<0.025	NC
HFS20	Total	7/26/05	0.316	0.309	2.2
HFS20	Total	8/14/05	0.096	0.077	22.0
HFS20-BF2-01	Total	8/27/05	0.112	0.157	-33.5
HFS20	Total	9/16/05	0.107	0.04	91.2
HFS-21	Total	3/21/06	0.013	<0.025	NC
HFS-21	Total	3/9/06	0.035	<0.025	NC
HFS21	Total	7/10/05	0.059	0.04	38.4
HFS21	Total	8/14/05	0.096	0.072	28.6
HFS21	Total	8/20/05	0.201	0.207	-2.9
HFS21	Total	9/16/05	0.065	0.216	-107.5
HFS 21	Total	9/28/05	0.067	<0.025	NC
HFS-22	Total	3/22/06	0.679	0.754	-10.5
HFS-22 Peak	Total	3/22/06	0.952	1.03	-7.9
HFS22-BF2-01	Total	8/28/05	1.472	0.102	174.1
HFS22	Total	9/15/05	0.062	0.049	23.4
HFS-23	Total	3/22/06	0.08	0.068	16.2
HFS23	Total	7/16/05	0.048	0.035	31.3
HFS23	Total	7/23/05	0.078	0.031	86.2
HFS23A	Total	8/14/05	0.041	0.046	-11.5
HFS23B	Total	8/14/05	0.03	<0.025	NC
HFS23-BF2-01	Total	8/28/05	0.071	<0.025	NC
HFS23	Total	9/16/05	0.155	0.179	-14.4
HFS 23	Total	9/25/05	0.147	0.096	42.0
HFS 26	Total	7/7/05	<0.01	<0.025	NC
HFS26-BF2-01	Total	8/27/05	<0.01	0.05	NC
HFS28A-BF2-01	Total	8/28/05	0.014	0.077	-138.5
HFS-29	Total	3/10/06	0.03	<0.025	NC
LK-01-1-01	Total	7/26/05	<0.01	<0.025	NC
LK-01-14-01	Total	7/26/05	<0.01	<0.025	NC
LK-01-25-01	Total	7/26/05	<0.01	<0.025	NC

Table B-5 Comparison of Method 6020 to 365.2 (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (365.2) A&L (mg/L)	RPD
LK-01-1-01	Total	8/24/05	<0.01	<0.025	NC
LK-01-14-01	Total	8/24/05	<0.01	<0.025	NC
LK-01-22-01	Total	8/24/05	<0.01	<0.025	NC
LK-01-1-01	Total	8/9/05	<0.01	<0.025	NC
LK-01-14-01	Total	8/9/05	<0.01	<0.025	NC
LK-01-25-01	Total	8/9/05	0.023	<0.025	NC
LK-01-1-01	Total	9/20/05	<0.01	<0.025	NC
LK-01-14-01	Total	9/20/05	<0.01	<0.025	NC
LK-01-22-01	Total	9/20/05	0.021	<0.025	NC
LK-01-1-01	Total	9/7/05	0.014	<0.025	NC
LK-01-14-01	Total	9/7/05	0.013	<0.025	NC
LK-01-22-01	Total	9/7/05	0.026	<0.025	NC
LK-02-1-01	Total	7/26/05	0.019	<0.025	NC
LK-02-10-01	Total	7/26/05	0.022	<0.025	NC
LK-02-22-01	Total	7/26/05	0.084	0.105	-22.2
LK-02-1-01	Total	8/23/05	0.017	<0.025	NC
LK-02-10-01	Total	8/23/05	<0.01	<0.025	NC
LK-02-22-01	Total	8/23/05	0.17	0.086	65.6
LK-02-1-01	Total	8/9/05	<0.01	0.031	NC
LK-02-10-01	Total	8/9/05	<0.01	<0.025	NC
LK-02-22-01	Total	8/9/05	0.102	0.049	70.2
LK-02-1-01	Total	9/20/05	0.013	<0.025	NC
LK-02-10-01	Total	9/20/05	0.017	<0.025	NC
LK-02-22-01	Total	9/20/05	0.264	0.281	-6.2
LK-02-1-01	Total	9/7/05	0.015	<0.025	NC
LK-02-10-01	Total	9/7/05	0.013	<0.025	NC
LK-02-22-01	Total	9/7/05	0.201	0.179	11.6
LK-03-1-03	Total	7/26/05	0.029	<0.025	NC
LK-03-1-01	Total	7/26/05	0.027	<0.025	NC
LK-03-3-01	Total	7/26/05	0.026	<0.025	NC
LK-03-6-01	Total	7/26/05	0.029	<0.025	NC
LK-03-1-03	Total	8/23/05	0.035	0.031	12.1
LK-03-1-01	Total	8/23/05	0.03	<0.025	NC
LK-03-3-01	Total	8/23/05	0.03	<0.025	NC
LK-03-6-01	Total	8/23/05	0.035	<0.025	NC
LK-03-1-03	Total	8/9/05	0.012	<0.025	NC
LK-03-1-01	Total	8/9/05	0.015	<0.025	NC
LK-03-3-01	Total	8/9/05	0.012	<0.025	NC
LK-03-6-01	Total	8/9/05	0.032	<0.025	NC
LK-03-1-03	Total	9/20/05	0.023	<0.025	NC
LK-03-1-01	Total	9/20/05	0.022	<0.025	NC
LK-03-3-01	Total	9/20/05	0.016	<0.025	NC
LK-03-4-01	Total	9/20/05	0.023	<0.025	NC
LK-03-1-03	Total	9/7/05	0.015	<0.025	NC
LK-03-1-01	Total	9/7/05	0.022	<0.025	NC
LK-03-3-01	Total	9/7/05	0.023	<0.025	NC
LK-03-6-01	Total	9/7/05	0.018	<0.025	NC
LK-04-1-01	Total	7/26/05	0.101	0.124	-20.4
LK-04-2-01	Total	7/26/05	0.108	0.161	-39.4
LK-04-4-01	Total	7/26/05	0.187	0.29	-43.2
LK-04-1-01	Total	8/23/05	0.108	0.142	-27.2
LK-04-2-01	Total	8/23/05	0.101	0.031	106.1
LK-04-4-01	Total	8/23/05	0.205	0.263	-24.8
LK-04-1-01	Total	8/9/05	0.097	0.105	-7.9
LK-04-2-01	Total	8/9/05	0.08	0.114	-35.1

Table B-5 Comparison of Method 6020 to 365.2 (Total and Dissolved)

Sample ID		Date	Phosphorus (6020) A&L (mg/L)	Phosphorus (365.2) A&L (mg/L)	RPD
LK-04-4-01	Total	8/9/05	0.133	0.216	-47.6
LK-04-1-01	Total	9/20/05	0.095	0.068	33.1
LK-04-2-01	Total	9/20/05	0.089	0.114	-24.6
LK-04-1-01	Total	9/7/05	0.051	0.04	24.2
LK-04-2-01	Total	9/7/05	0.074	0.077	-4.0
LK-04-4-01	Total	9/7/05	0.084	0.161	-62.9
RS-1-01	Total	7/25/05	0.086	<0.025	NC
RS-1-01	Total	8/24/05	0.04	0.04	0.0
RS-1-01	Total	8/8/05	0.033	0.049	-39.0
RS-1-01	Total	9/19/05	0.041	<0.025	NC
RS-1-01	Total	9/6/05	0.039	0.031	22.9
RS-2-01	Total	7/25/05	0.034	<0.025	NC
RS-2-01	Total	8/24/05	0.025	0.105	-123.1
RS-2-01	Total	8/8/05	0.018	<0.025	NC
RS-2-01	Total	9/20/05	0.023	<0.025	NC
RS-2-01	Total	9/6/05	0.027	<0.025	NC
RS-3-01	Total	7/25/05	0.091	0.068	28.9
RS-3-01	Total	8/24/05	0.088	<0.025	NC
RS-3-01	Total	8/8/05	0.074	0.059	22.6
RS-3-01	Total	9/19/05	0.078	0.077	1.3
RS-3-01	Total	9/6/05	0.077	0.096	-22.0

nc = not calculated

Table B-6 Comparison of Ortho-Phosphorus Method 4500PF to 365.2 (Dissolved)

Sample ID		Date	Ortho-Phosphorus (4500PF) Aquatic (mg/L)	Ortho-Phosphorus (365.2) A&L (mg/L)	RPD
BS-08-SW	Dissolved	08/23/05	0.018	<0.025	NC
BS-117-SW	Dissolved	09/14/05	0.017	<0.025	NC
BS-208-SW	Dissolved	09/01/05	0.027	<0.025	NC
BS-28-SW	Dissolved	08/23/05	0.015	<0.025	NC
BS-35-SW	Dissolved	09/22/05	0.001	<0.025	NC
BS-62A-SW	Dissolved	08/16/05	0.011	0.04	-114.0
BS-68-SW	Dissolved	08/19/05	0.022	<0.025	NC
BS-HF04-SW	Dissolved	08/17/05	1.305	0.617	71.6
BS-HF22-SW	Dissolved	08/24/05	1.037	0.501	69.7
BS-HF28A-SW	Dissolved	08/18/05	0.003	<0.025	NC
BS-REF1-SW	Dissolved	08/30/05	0.004	<0.025	NC
BS-REF2-SW	Dissolved	08/31/05	0.025	<0.025	NC
BS-REF3-SW-03	Dissolved	09/01/05	0.024	<0.025	NC
BS-REF3-SW	Dissolved	09/01/05	0.025	<0.025	NC
GF1	Dissolved	03/09/06	0.341	0.337	1.2
HFS02	Dissolved	07/11/05	0.021	<0.025	NC
HFS02-BF1	Dissolved	07/11/05	0.032	<0.025	NC
HFS02-BF2-01	Dissolved	08/27/05	0.018	<0.025	NC
HFS-04	Dissolved	03/10/06	1.682	1.73	-2.8
HFS-04 PEAK	Dissolved	03/10/06	1.499	1.5	0.0
HFS04-BF1	Dissolved	07/13/05	1.574	0.675	79.9
HFS04	Dissolved	07/27/05	0.849	0.735	14.4
HFS04A	Dissolved	08/20/05	1.272	0.235	137.6
HFS04-BF2-01	Dissolved	08/27/05	1.494	0.059	184.8
HFS04	Dissolved	09/28/05	1.444	0.895	47.0
HFS-05	Dissolved	03/22/06	<0.001	<0.025	NC
HFS-05 PEAK	Dissolved	03/22/06	<0.001	<0.025	NC
HFS05-BF1	Dissolved	07/12/05	0.051	<0.025	NC
HFS05-BF2-01	Dissolved	08/29/05	0.051	0.078	-41.2
HFS05	Dissolved	09/28/05	0.020	<0.025	NC
HFS08-BF1	Dissolved	07/13/05	0.027	0.035	-27.2
HFS08-BF2-01	Dissolved	08/28/05	<0.001	0.046	NC
HFS-14	Dissolved	03/10/06	0.233	0.235	-1.0
HFS-14 PEAK	Dissolved	03/10/06	0.522	0.531	-1.7
HFS14-BF1	Dissolved	07/12/05	0.024	<0.025	NC
HFS14	Dissolved	07/23/05	0.007	<0.025	NC
HFS14-BF2-01	Dissolved	08/27/05	<0.001	0.046	NC
HFS-16	Dissolved	03/10/06	0.042	<0.025	NC
HFS16-BF1	Dissolved	07/11/05	0.033	<0.025	NC
HFS16	Dissolved	07/13/05	0.059	0.049	18.6
HFS16	Dissolved	08/14/05	0.201	0.188	6.7
HFS16-BF2-03	Dissolved	08/27/05	0.108	0.138	-24.6
HFS16-BF2-01	Dissolved	08/27/05	0.099	0.126	-24.0
HFS16	Dissolved	09/15/05	0.239	0.226	5.7
HFS-20	Dissolved	03/10/06	0.031	<0.025	NC
HFS20-BF1	Dissolved	07/13/05	0.068	0.049	32.2
HFS20	Dissolved	07/26/05	0.263	0.328	-22.1
HFS20	Dissolved	08/14/05	0.039	0.068	-53.3
HFS20-BF2-01	Dissolved	08/27/05	0.022	0.07	-105.3
HFS-21	Dissolved	03/21/06	<0.001	<0.025	0.0
HFS21-BF1	Dissolved	07/13/05	0.032	<0.025	NC
HFS21	Dissolved	08/14/05	0.035	0.059	-52.2
HFS21	Dissolved	08/20/05	0.182	0.17	7.0
HFS21	Dissolved	09/16/05	0.035	<0.025	NC
HFS21	Dissolved	09/28/05	0.008	<0.025	NC

Table B-6 Comparison of Ortho-Phosphorus Method 4500PF to 365.2 (Dissolved)

Sample ID		Date	Ortho-Phosphorus (4500PF) Aquatic (mg/L)	Ortho-Phosphorus (365.2) A&L (mg/L)	RPD
HFS-22	Dissolved	03/22/06	0.686	0.754	-9.4
HFS-22 PEAK	Dissolved	03/22/06	1.010	0.995	1.5
HFS22-BF1	Dissolved	07/12/05	0.769	<0.025	NC
HFS22-BF2-01	Dissolved	08/28/05	1.205	0.094	171.0
HFS22	Dissolved	09/15/05	0.044	<0.025	NC
HFS-23	Dissolved	03/22/06	0.014	<0.025	NC
HFS23-BF1	Dissolved	07/12/05	0.016	<0.025	NC
HFS23	Dissolved	07/16/05	0.034	<0.025	NC
HFS23	Dissolved	07/23/05	0.066	0.04	48.4
HFS23A	Dissolved	08/14/05	0.008	<0.025	NC
HFS23-BF2-01	Dissolved	08/28/05	0.014	<0.025	NC
HFS23	Dissolved	09/16/05	0.004	<0.025	NC
HFS23	Dissolved	09/25/05	0.033	<0.025	NC
HFS26-BF1-DP	Dissolved	07/13/05	0.006	0.068	-167.6
HFS26-BF1	Dissolved	07/13/05	0.007	<0.025	NC
HFS26-BF2-01	Dissolved	08/27/05	0.010	<0.025	NC
HFS28A-BF2-01	Dissolved	08/28/05	0.016	<0.025	NC
HFS-29	Dissolved	03/10/06	0.024	<0.025	NC
LK-01-1	Dissolved	06/29/05	0.003	<0.025	NC
LK-01-14	Dissolved	06/29/05	0.002	<0.025	NC
LK-01-25	Dissolved	06/29/05	0.004	<0.025	NC
LK-01-8	Dissolved	06/29/05	0.002	<0.025	NC
LK-01-1	Dissolved	07/12/05	0.001	<0.025	NC
LK-01-14	Dissolved	07/12/05	0.001	<0.025	NC
LK-01-25	Dissolved	07/12/05	0.002	<0.025	NC
LK-01-1-01	Dissolved	07/26/05	0.001	<0.025	NC
LK-01-14-01	Dissolved	07/26/05	<0.001	<0.025	NC
LK-01-18-01	Dissolved	07/26/05	<0.001	<0.025	NC
LK-01-22-01	Dissolved	07/26/05	0.003	<0.025	NC
LK-01-25-01	Dissolved	07/26/05	0.001	<0.025	NC
LK-01-8-01	Dissolved	07/26/05	0.001	<0.025	NC
LK-01-1-01	Dissolved	08/24/05	0.003	<0.025	NC
LK-01-14-01	Dissolved	08/24/05	0.002	<0.025	NC
LK-01-18-01	Dissolved	08/24/05	0.003	<0.025	NC
LK-01-22-01	Dissolved	08/24/05	0.007	<0.025	NC
LK-01-8-01	Dissolved	08/24/05	0.002	<0.025	NC
LK-01-1-01	Dissolved	08/09/05	0.002	<0.025	NC
LK-01-14-01	Dissolved	08/09/05	0.001	<0.025	NC
LK-01-18-01	Dissolved	08/09/05	<0.001	<0.025	NC
LK-01-22-01	Dissolved	08/09/05	0.006	<0.025	NC
LK-01-25-01	Dissolved	08/09/05	0.006	<0.025	NC
LK-01-8-01	Dissolved	08/09/05	0.001	<0.025	NC
LK-01-1-01	Dissolved	09/20/05	0.002	<0.025	NC
LK-01-14-01	Dissolved	09/20/05	0.001	<0.025	NC
LK-01-18-01	Dissolved	09/20/05	0.001	<0.025	NC
LK-01-22-01	Dissolved	09/20/05	0.005	<0.025	NC
LK-01-8-01	Dissolved	09/20/05	<0.001	<0.025	NC
LK-01-1-01	Dissolved	09/07/05	0.002	<0.025	NC
LK-01-14-01	Dissolved	09/07/05	<0.001	<0.025	NC
LK-01-18-01	Dissolved	09/07/05	0.002	<0.025	NC
LK-01-22-01	Dissolved	09/07/05	0.004	<0.025	NC
LK-01-8-01	Dissolved	09/07/05	0.001	<0.025	NC
LK-02-1	Dissolved	06/29/05	0.002	<0.025	NC
LK-02-10	Dissolved	06/29/05	0.003	<0.025	NC
LK-02-16	Dissolved	06/29/05	0.003	<0.025	NC

Table B-6 Comparison of Ortho-Phosphorus Method 4500PF to 365.2 (Dissolved)

Sample ID		Date	Ortho-Phosphorus (4500PF) Aquatic (mg/L)	Ortho-Phosphorus (365.2) A&L (mg/L)	RPD
LK-02-22	Dissolved	06/29/05	0.019	<0.025	NC
LK-02-1	Dissolved	07/12/05	0.001	<0.025	NC
LK-02-10	Dissolved	07/12/05	<0.001	<0.025	NC
LK-02-22	Dissolved	07/12/05	0.026	<0.025	NC
LK-02-1-01	Dissolved	07/26/05	0.002	<0.025	NC
LK-02-10-01	Dissolved	07/26/05	0.003	<0.025	NC
LK-02-16-01	Dissolved	07/26/05	0.001	<0.025	NC
LK-02-22-01	Dissolved	07/26/05	0.026	<0.025	NC
LK-02-6-01	Dissolved	07/26/05	0.001	<0.025	NC
LK-02-8-01	Dissolved	07/26/05	<0.001	<0.025	NC
LK-02-1-01	Dissolved	08/23/05	0.002	<0.025	NC
LK-02-10-01	Dissolved	08/23/05	0.002	<0.025	NC
LK-02-16-01	Dissolved	08/23/05	0.006	<0.025	NC
LK-02-22-01	Dissolved	08/23/05	0.026	<0.025	NC
LK-02-6-01	Dissolved	08/23/05	0.002	<0.025	NC
LK-02-8-01	Dissolved	08/23/05	0.002	<0.025	NC
LK-02-1-01	Dissolved	08/09/05	0.013	<0.025	NC
LK-02-10-01	Dissolved	08/09/05	0.005	<0.025	NC
LK-02-16-01	Dissolved	08/09/05	0.010	<0.025	NC
LK-02-22-01	Dissolved	08/09/05	0.018	<0.025	NC
LK-02-6-01	Dissolved	08/09/05	0.002	<0.025	NC
LK-02-8-01	Dissolved	08/09/05	0.002	<0.025	NC
LK-02-1-01	Dissolved	09/20/05	0.001	<0.025	NC
LK-02-10-1	Dissolved	09/20/05	0.003	<0.025	NC
LK-02-16-01	Dissolved	09/20/05	0.020	<0.025	NC
LK-02-22-01	Dissolved	09/20/05	0.007	<0.025	NC
LK-02-6-01	Dissolved	09/20/05	<0.001	<0.025	NC
LK-02-8-01	Dissolved	09/20/05	<0.001	<0.025	NC
LK-02-1-01	Dissolved	09/07/05	0.001	<0.025	NC
LK-02-10-01	Dissolved	09/07/05	0.001	<0.025	NC
LK-02-16-01	Dissolved	09/07/05	0.006	<0.025	NC
LK-02-22-01	Dissolved	09/07/05	0.035	<0.025	NC
LK-02-6-01	Dissolved	09/07/05	0.001	<0.025	NC
LK-02-8-01	Dissolved	09/07/05	0.001	<0.025	NC
LK-03-1	Dissolved	06/29/05	0.003	<0.025	NC
LK-03-3	Dissolved	06/29/05	0.002	<0.025	NC
LK-03-5	Dissolved	06/29/05	0.002	<0.025	NC
LK-03-6	Dissolved	06/29/05	0.002	<0.025	NC
LK-03-1	Dissolved	07/12/05	0.002	<0.025	NC
LK-03-3	Dissolved	07/12/05	0.002	<0.025	NC
LK-03-6	Dissolved	07/12/05	0.002	<0.025	NC
LK-03-1-01	Dissolved	07/26/05	0.002	<0.025	NC
LK-03-3-01	Dissolved	07/26/05	0.002	<0.025	NC
LK-03-6-01	Dissolved	07/26/05	0.002	<0.025	NC
LK-03-1-01	Dissolved	08/23/05	0.004	<0.025	NC
LK-03-3-01	Dissolved	08/23/05	0.005	<0.025	NC
LK-03-6-01	Dissolved	08/23/05	0.004	<0.025	NC
LK-03-1-03	Dissolved	08/09/05	0.002	<0.025	NC
LK-03-1-01	Dissolved	08/09/05	0.002	<0.025	NC
LK-03-3-01	Dissolved	08/09/05	0.002	<0.025	NC
LK-03-6-01	Dissolved	08/09/05	0.002	<0.025	NC
LK-03-1-03	Dissolved	09/20/05	0.002	<0.025	NC
LK-03-1-01	Dissolved	09/20/05	0.003	<0.025	NC
LK-03-3-01	Dissolved	09/20/05	0.001	<0.025	NC
LK-03-4-01	Dissolved	09/20/05	0.003	<0.025	NC

Table B-6 Comparison of Ortho-Phosphorus Method 4500PF to 365.2 (Dissolved)

Sample ID		Date	Ortho-Phosphorus (4500PF) Aquatic (mg/L)	Ortho-Phosphorus (365.2) A&L (mg/L)	RPD
LK-03-1-01	Dissolved	09/07/05	0.003	<0.025	NC
LK-03-3-01	Dissolved	09/07/05	0.003	<0.025	NC
LK-03-6-01	Dissolved	09/07/05	0.002	<0.025	NC
LK-04-1-01	Dissolved	07/26/05	0.045	0.068	-41.5
LK-04-2-01	Dissolved	07/26/05	0.049	0.031	44.5
LK-04-4-01	Dissolved	07/26/05	0.071	0.077	-8.1
LK-04-1-01	Dissolved	08/23/05	0.051	<0.025	NC
LK-04-2-01	Dissolved	08/23/05	0.055	0.031	56.6
LK-04-4-01	Dissolved	08/23/05	0.060	0.029	69.7
LK-04-1-01	Dissolved	08/09/05	0.031	<0.025	NC
LK-04-2-01	Dissolved	08/09/05	0.037	<0.025	NC
LK-04-4-01	Dissolved	08/09/05	0.055	<0.025	NC
LK-04-1-01	Dissolved	09/20/05	0.040	<0.025	NC
LK-04-2-01	Dissolved	09/20/05	0.043	<0.025	NC
LK-04-1-01	Dissolved	09/07/05	0.016	<0.025	NC
LK-04-2-01	Dissolved	09/07/05	0.037	<0.025	NC
LK-04-4-01	Dissolved	09/07/05	0.040	<0.025	NC
RS-1	Dissolved	06/28/05	0.029	<0.025	NC
RS-1	Dissolved	07/11/05	0.016	<0.025	NC
RS-1-01	Dissolved	07/25/05	0.032	0.105	-106.5
RS-1-01	Dissolved	08/24/05	0.035	<0.025	NC
RS-1-01	Dissolved	08/08/05	0.035	<0.025	NC
RS-1-01	Dissolved	09/19/05	0.030	<0.025	NC
RS-1-01	Dissolved	09/06/05	0.034	<0.025	NC
RS-2	Dissolved	06/28/05	0.020	<0.025	NC
RS-2	Dissolved	07/11/05	0.018	<0.025	NC
RS-2-01	Dissolved	07/25/05	0.012	<0.025	NC
RS-2-01	Dissolved	08/24/05	0.012	<0.025	NC
RS-2-01	Dissolved	08/08/05	0.018	<0.025	NC
RS-2-01	Dissolved	09/20/05	0.017	<0.025	NC
RS-2-01	Dissolved	09/06/05	0.022	<0.025	NC
RS-3	Dissolved	06/28/05	0.061	0.031	64.6
RS-3	Dissolved	07/11/05	0.060	0.049	19.6
RS-3-01	Dissolved	07/25/05	0.065	0.04	47.9
RS-3-01	Dissolved	08/24/05	0.076	0.031	84.6
RS-3-03	Dissolved	08/08/05	0.069	<0.025	NC
RS-3-01	Dissolved	08/08/05	0.068	<0.025	NC
RS-3-01	Dissolved	09/19/05	0.059	0.04	38.4
RS-3-01	Dissolved	09/06/05	0.069	0.049	34.3

nc = not calculated

## **Appendix C**

### **Water Environmental Components**

### **Summary Tables**

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## Appendix C : Water

Table 1: Summary of Edge of Field Poultry Samples

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Alkalinity (as CaCO <sub>3</sub> )	64	5	2120	112.25	263.2598	mg/L	63/64 (98%)
Campylobacter species	60	0.5	1	0.8	0.247	MPN*/100ml	0/60 (0%)
E. coli	65	17	1600000	89669	270511.02	MPN*/100ml	65/65 (100%)
Enterococcus Group	65	110	1600000	125623	323571.71	MPN*/100ml	65/65 (100%)
Fecal Coliform	68	30	1600000	89894.2	266805.66	MPN*/100ml	68/68 (100%)
Salmonella species	68	0.5	46	2.2721	6.1677	MPN*/100ml	10/68 (15%)
Staphylococcus aureus	68	0.55	488	11.2351	63.064	MPN*/100ml	9/68 (13%)
Total Coliform	68	200	1600000	220466	422114.21	MPN*/100ml	68/68 (100%)
Chloride	64	0.5	806	22.4577	100.5138	mg/L	60/64 (94%)
17a-estradiol	42	0.5	25.5	3.2812	4.9017	ng/L	3/42 (7%)
17b-estradiol	42	0.5	25.5	2.941	4.1839	ng/L	2/42 (5%)
Estriol	42	0.5	449	13.756	68.9556	ng/L	3/42 (7%)
Estrone	42	0.5	108	7.6674	18.6267	ng/L	7/42 (17%)
Dissolved Aluminum	82	0.05	5	0.3284	0.6627	mg/L	44/82 (54%)
Dissolved Antimony	82	0.0005	0.05	0.004	0.0066	mg/L	3/82 (4%)
Dissolved Arsenic	90	0.0005	72.6	0.8156	7.6518	mg/L	39/90 (43%)
Dissolved Barium	82	0.005	0.312	0.0594	0.0586	mg/L	80/82 (98%)
Dissolved Beryllium	82	0.0005	0.05	0.0012	0.0055	mg/L	0/82 (0%)
Dissolved Boron	1	0.021	0.021	0.021		mg/L	1/1 (100%)
Dissolved Cadmium	82	0.0005	0.05	0.0019	0.0064	mg/L	2/82 (2%)
Dissolved Calcium	82	4.224	285.186	37.3636	44.3506	mg/L	82/82 (100%)
Dissolved Chromium	82	0.0005	0.499	0.0082	0.0549	mg/L	15/82 (18%)
Dissolved Cobalt	82	0.0005	7.2	0.1511	0.9476	mg/L	45/82 (55%)
Dissolved Copper	90	0.001	5.08	0.1244	0.5455	mg/L	78/90 (87%)
Dissolved Iron	82	0.05	20.8	0.6148	2.3351	mg/L	57/82 (70%)
Dissolved Lead	82	0.0005	0.05	0.0028	0.0058	mg/L	8/82 (10%)
Dissolved Magnesium	82	0.506	171	6.233	19.0908	mg/L	82/82 (100%)
Dissolved Manganese	82	0.002	2.898	0.2651	0.5229	mg/L	75/82 (91%)
Dissolved Mercury	80	0.0001	0.0004	0.0001	0	mg/L	3/80 (4%)
Dissolved Molybdenum	68	0.0005	0.25	0.0162	0.0309	mg/L	12/68 (18%)
Dissolved Nickel	82	0.0005	0.538	0.0129	0.0592	mg/L	46/82 (56%)
Dissolved Potassium	82	0.005	1960	42.6502	216.3475	mg/L	79/82 (96%)
Dissolved Selenium	82	0.0005	0.05	0.0039	0.0066	mg/L	5/82 (6%)
Dissolved Silver	82	0.0005	0.05	0.0024	0.0057	mg/L	1/82 (1%)
Dissolved Sodium	82	0.485	800	19.7744	88.8618	mg/L	81/82 (99%)
Dissolved Strontium	1	0.0005	0.0005	0.0005		mg/L	0/1 (0%)
Dissolved Thallium	82	0.0005	0.05	0.0068	0.0097	mg/L	0/82 (0%)
Dissolved Titanium	1	0.0005	0.0005	0.0005		mg/L	0/1 (0%)
Dissolved Vanadium	82	0.0005	0.5	0.012	0.0549	mg/L	2/82 (2%)
Dissolved Zinc	90	0.0025	4.16	0.0823	0.4382	mg/L	64/90 (71%)
Total Aluminum	82	0.05	141.307	9.4983	18.1173	mg/L	77/82 (94%)
Total Antimony	82	0.0005	0.05	0.0037	0.0061	mg/L	2/82 (2%)
Total Arsenic	90	0.0005	0.698	0.0196	0.077	mg/L	57/90 (63%)
Total Barium	82	0.01	4.178	0.1863	0.472	mg/L	81/82 (99%)
Total Beryllium	82	0.0005	0.05	0.0015	0.0056	mg/L	14/82 (17%)
Total Cadmium	82	0.0005	0.05	0.0015	0.0055	mg/L	1/82 (1%)
Total Calcium	82	4.559	1150	64.8345	146.8496	mg/L	82/82 (100%)
Total Chromium	82	0.0005	0.491	0.0222	0.0585	mg/L	60/82 (73%)
Total Cobalt	82	0.0005	0.156	0.01	0.0206	mg/L	39/82 (48%)
Total Copper	90	0.0005	4.36	0.1799	0.5672	mg/L	84/90 (93%)
Total Iron	82	0.217	152.363	12.1774	21.1138	mg/L	82/82 (100%)
Total Lead	82	0.0005	0.246	0.0178	0.0344	mg/L	57/82 (70%)
Total Magnesium	82	0.974	159	7.1483	17.9954	mg/L	82/82 (100%)
Total Manganese	82	0.009	9.878	0.692	1.3941	mg/L	82/82 (100%)

## NOTES:

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C : Water****Table 1: Summary of Edge of Field Poultry Samples**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Total Mercury	82	0.0001	0.0005	0.0001	0.0001	mg/L	2/82 (2%)
Total Molybdenum	55	0.001	0.031	0.0044	0.0058	mg/L	14/55 (25%)
Total Nickel	82	0.001	0.527	0.0188	0.0592	mg/L	73/82 (89%)
Total Potassium	82	2.3	1900	47.9513	210.2446	mg/L	82/82 (100%)
Total Selenium	82	0.0005	0.05	0.0036	0.0061	mg/L	5/82 (6%)
Total Silver	82	0.0005	0.05	0.0023	0.0056	mg/L	0/82 (0%)
Total Sodium	82	0.413	799	19.868	88.8605	mg/L	82/82 (100%)
Total Thallium	82	0.0005	0.05	0.0063	0.0084	mg/L	0/82 (0%)
Total Vanadium	82	0.0005	0.5	0.0297	0.0672	mg/L	40/82 (49%)
Total Zinc	90	0.0025	3.35	0.1646	0.4218	mg/L	85/90 (94%)
Ammonia Nitrogen	64	0.05	183	4.2337	22.9529	mg/L	53/64 (83%)
Nitrite + Nitrate (as N)	66	0.05	7.61	1.5568	1.5522	mg/L	55/66 (83%)
Total Kjeldahl Nitrogen	76	0.3	681	24.3989	84.8912	mg/L	73/76 (96%)
Brevibacteria 16S rRNA	38	2613.120	55638130	8502780	18164465	Copies/L	21/38 (55%)
Dissolved Ortho P (365.2)	36	0.0125	4.326	0.2971	0.7906	mg/L	19/36 (53%)
Soluble Reactive P (4500PF)	42	0.0179	60	3.7517	9.8547	mg/L	42/42 (100%)
Total Dissolved P (365.2)	39	0.0125	6.18	0.5554	1.1863	mg/L	32/39 (82%)
Total Dissolved P (4500PF)	42	0.024	93.7	4.8239	14.8433	mg/L	42/42 (100%)
Total Dissolved P (6010)	48	0.093	23.988	1.8334	3.6525	mg/L	48/48 (100%)
Total Dissolved P (6020)	42	0.024	145	6.0349	22.49	mg/L	42/42 (100%)
Total ortho P (365.2)	37	0.041	17.459	2.2967	3.6899	mg/L	35/37 (95%)
Total P (365.2)	39	0.14	23.893	3.6849	5.9234	mg/L	39/39 (100%)
Total P (4500PF)	42	0.074	190	8.1395	29.425	mg/L	42/42 (100%)
Total P (6010)	48	0.44	67.76	5.7696	11.3418	mg/L	48/48 (100%)
Total P (6020)	42	0.075	1520	42.402	234.4892	mg/L	42/42 (100%)
Total Sulfate (SO4)	64	1.42	460	21.3516	57.1835	mg/L	64/64 (100%)
TOC	67	2.47	2800	58.6615	340.5289	mg/L	67/67 (100%)
Total Dissolved Solids	64	41	9720	405.25	1189.6355	mg/L	64/64 (100%)
Total Suspended Solids	63	4	6060	267.984	773.3278	mg/L	63/63 (100%)
Conductivity	43	0.042	0.59	0.2046	0.147	mmhos/cm	43/43 (100%)
pH	64	5.4	8.02	6.8627	0.5999	s.u.	64/64 (100%)

**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 2: Summary of Edge of Field Cattle Samples**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Alkalinity (as CaCO3)	2	12	38	25	18.3848	mg/L	2/2 (100%)
E. coli	2	12000	12000	12000	0	MPN*/100ml	2/2 (100%)
Enterococcus Group	2	12000	12000	12000	0	MPN*/100ml	2/2 (100%)
Fecal Coliform	2	12000	12000	12000	0	MPN*/100ml	2/2 (100%)
Salmonella species	2	1	1	1	0	MPN*/100ml	0/2 (0%)
Staphylococcus aureus	2	0.55	1.1	0.825	0.3889	MPN*/100ml	1/2 (50%)
Total Coliform	2	12000	12000	12000	0	MPN*/100ml	2/2 (100%)
Chloride	2	1.5	5.73	3.615	2.9911	mg/L	2/2 (100%)
17a-estradiol	2	0.5	0.5	0.5	0	ng/L	0/2 (0%)
17b-estradiol	2	0.5	0.5	0.5	0	ng/L	0/2 (0%)
Estriol	2	0.5	0.5	0.5	0	ng/L	0/2 (0%)
Estrone	2	0.5	0.5	0.5	0	ng/L	0/2 (0%)
Dissolved Aluminum	2	0.05	0.05	0.05	0	mg/L	0/2 (0%)
Dissolved Antimony	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Dissolved Arsenic	2	0.0015	0.002	0.0018	0.0003	mg/L	2/2 (100%)
Dissolved Barium	2	0.0115	0.0224	0.017	0.0077	mg/L	2/2 (100%)
Dissolved Beryllium	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Dissolved Cadmium	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Dissolved Calcium	2	1.87	9.63	5.75	5.4871	mg/L	2/2 (100%)
Dissolved Chromium	2	0.0011	0.0012	0.0012	0.0001	mg/L	2/2 (100%)
Dissolved Cobalt	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Dissolved Copper	2	0.0371	0.0385	0.0378	0.001	mg/L	2/2 (100%)
Dissolved Iron	2	0.05	0.144	0.097	0.0665	mg/L	1/2 (50%)
Dissolved Lead	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Dissolved Magnesium	2	0.773	3.14	1.9565	1.6737	mg/L	2/2 (100%)
Dissolved Manganese	2	0.0023	0.0058	0.004	0.0025	mg/L	2/2 (100%)
Dissolved Mercury	2	0.0001	0.0001	0.0001	0	mg/L	0/2 (0%)
Dissolved Molybdenum	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Dissolved Nickel	2	0.0005	0.0012	0.0008	0.0005	mg/L	1/2 (50%)
Dissolved Potassium	2	6.04	9.13	7.585	2.185	mg/L	2/2 (100%)
Dissolved Selenium	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Dissolved Silver	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Dissolved Sodium	2	0.783	3.04	1.9115	1.5959	mg/L	2/2 (100%)
Dissolved Thallium	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Dissolved Vanadium	2	0.0025	0.0025	0.0025	0	mg/L	0/2 (0%)
Dissolved Zinc	2	0.0134	0.049	0.0312	0.0252	mg/L	2/2 (100%)
Total Aluminum	2	1.26	4.26	2.76	2.1213	mg/L	2/2 (100%)
Total Antimony	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Total Arsenic	2	0.0022	0.0034	0.0028	0.0008	mg/L	2/2 (100%)
Total Barium	2	0.0317	0.0924	0.0621	0.0429	mg/L	2/2 (100%)
Total Beryllium	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Total Cadmium	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Total Calcium	2	1.78	10.2	5.99	5.9538	mg/L	2/2 (100%)
Total Chromium	2	0.0005	0.0021	0.0013	0.0012	mg/L	1/2 (50%)
Total Cobalt	2	0.0005	0.0018	0.0012	0.001	mg/L	1/2 (50%)
Total Copper	2	0.0014	0.0047	0.0031	0.0023	mg/L	2/2 (100%)
Total Iron	2	1.14	3.76	2.45	1.8526	mg/L	2/2 (100%)
Total Lead	2	0.0016	0.0053	0.0035	0.0026	mg/L	2/2 (100%)
Total Magnesium	2	0.878	3.51	2.194	1.8611	mg/L	2/2 (100%)
Total Manganese	2	0.0939	0.3	0.197	0.1457	mg/L	2/2 (100%)
Total Mercury	2	0.0001	0.0001	0.0001	0	mg/L	0/2 (0%)
Total Molybdenum	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Total Nickel	2	0.0011	0.0037	0.0024	0.0018	mg/L	2/2 (100%)
Total Potassium	2	6.48	10.2	8.34	2.6304	mg/L	2/2 (100%)

NOTES:

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 2: Summary of Edge of Field Cattle Samples**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Total Selenium	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Total Silver	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Total Sodium	2	0.435	2.4	1.4175	1.3895	mg/L	2/2 (100%)
Total Thallium	2	0.0005	0.0005	0.0005	0	mg/L	0/2 (0%)
Total Vanadium	2	0.0051	0.011	0.008	0.0042	mg/L	2/2 (100%)
Total Zinc	2	0.0098	0.0298	0.0198	0.0141	mg/L	2/2 (100%)
Ammonia Nitrogen	2	0.05	0.24	0.145	0.1344	mg/L	1/2 (50%)
Nitrite + Nitrate (as N)	2	0.146	0.247	0.1965	0.0714	mg/L	2/2 (100%)
Total Kjeldahl Nitrogen	2	2.81	5.56	4.185	1.9445	mg/L	2/2 (100%)
Soluble Reactive P (4500PF)	2	0.5021	0.6035	0.5528	0.0717	mg/L	2/2 (100%)
Total Dissolved P (4500PF)	2	0.5576	0.6568	0.6072	0.0701	mg/L	2/2 (100%)
Total Dissolved P (6020)	2	0.521	0.524	0.5225	0.0021	mg/L	2/2 (100%)
Total P (4500PF)	2	0.9571	1.2471	1.1021	0.2051	mg/L	2/2 (100%)
Total P (6020)	2	0.671	0.982	0.8265	0.2199	mg/L	2/2 (100%)
Total Sulfate (SO <sub>4</sub> )	2	2.31	4.36	3.335	1.4496	mg/L	2/2 (100%)
TOC	2	11.4	11.9	11.65	0.3536	mg/L	2/2 (100%)
Total Dissolved Solids	2	79	117	98	26.8701	mg/L	2/2 (100%)
Total Suspended Solids	2	70	236	153	117.3797	mg/L	2/2 (100%)
pH	2	6.4	6.6	6.5	0.1414	s.u.	2/2 (100%)

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NOTES:

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 3: Summary of Small Tributary Samples – Base Flow Conditions**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Alkalinity (as CaCO <sub>3</sub> )	48	42	378	135.333	74.024	mg/L	48/48 (100%)
Campylobacter species	23	0.335	1	0.725	0.2994	MPN*/100ml	0/23 (0%)
E. coli	33	1	2200	182.091	394.7955	MPN*/100ml	32/33 (97%)
Enterococcus Group	57	0.5	7600	547.939	1096.1535	MPN*/100ml	56/57 (98%)
Fecal Coliform	57	0.5	91000	3013.64	12860.313	MPN*/100ml	56/57 (98%)
Salmonella species	33	1	33	2.3333	5.5603	MPN*/100ml	9/33 (27%)
Staphylococcus aureus	57	0.55	12000	430.149	1881.5937	MPN*/100ml	24/57 (42%)
Total Coliform	57	0.5	70000	4076.15	10910.526	MPN*/100ml	56/57 (98%)
Chloride	48	4.46	71.6	14.8808	14.9643	mg/L	48/48 (100%)
17a-estradiol	41	0.5	25	2.921	7.351	ng/L	2/41 (5%)
17b-estradiol	41	0.5	25	4.3337	7.1529	ng/L	18/41 (44%)
Estriol	41	0.5	3100	130.168	513.7783	ng/L	6/41 (15%)
Estrone	41	0.5	51.5	6.2515	11.3004	ng/L	11/41 (27%)
Dissolved Aluminum	48	0.005	0.085	0.0403	0.0195	mg/L	5/48 (10%)
Dissolved Antimony	48	0.0005	0.005	0.0017	0.002	mg/L	1/48 (2%)
Dissolved Arsenic	48	0.0005	0.005	0.002	0.0019	mg/L	11/48 (23%)
Dissolved Barium	48	0.028	0.082	0.0525	0.0132	mg/L	48/48 (100%)
Dissolved Beryllium	48	0.0005	0.0005	0.0005	0	mg/L	0/48 (0%)
Dissolved Cadmium	48	0.0005	0.003	0.0008	0.0005	mg/L	6/48 (13%)
Dissolved Calcium	48	16.5	84.9	53.3221	16.0071	mg/L	48/48 (100%)
Dissolved Chromium	48	0.0005	0.003	0.0011	0.0009	mg/L	2/48 (4%)
Dissolved Cobalt	48	0.0005	0.276	0.0085	0.0397	mg/L	7/48 (15%)
Dissolved Copper	48	0.0005	0.024	0.0021	0.0035	mg/L	18/48 (38%)
Dissolved Iron	48	0.005	0.058	0.0447	0.0122	mg/L	12/48 (25%)
Dissolved Lead	48	0.0005	0.009	0.0015	0.0016	mg/L	5/48 (10%)
Dissolved Magnesium	48	0.825	7.872	2.5122	1.2925	mg/L	48/48 (100%)
Dissolved Manganese	48	0.0005	0.384	0.0503	0.1014	mg/L	37/48 (77%)
Dissolved Mercury	48	0.0001	0.0001	0.0001	0	mg/L	0/48 (0%)
Dissolved Molybdenum	48	0.0025	0.025	0.0086	0.0101	mg/L	0/48 (0%)
Dissolved Nickel	48	0.0005	0.005	0.0023	0.0019	mg/L	17/48 (35%)
Dissolved Potassium	48	1.05	17.3	4.3114	3.7456	mg/L	48/48 (100%)
Dissolved Selenium	48	0.0005	0.005	0.0017	0.002	mg/L	1/48 (2%)
Dissolved Silver	48	0.0005	0.0025	0.001	0.0009	mg/L	0/48 (0%)
Dissolved Sodium	48	2.41	62.7	10.9912	13.7729	mg/L	48/48 (100%)
Dissolved Thallium	48	0.0005	0.01	0.0031	0.0043	mg/L	0/48 (0%)
Dissolved Vanadium	48	0.0005	0.106	0.0157	0.0269	mg/L	21/48 (44%)
Dissolved Zinc	48	0.0025	0.086	0.0162	0.0175	mg/L	36/48 (75%)
Total Aluminum	48	0.005	0.786	0.1126	0.1659	mg/L	20/48 (42%)
Total Antimony	48	0.0005	0.005	0.0019	0.002	mg/L	4/48 (8%)
Total Arsenic	48	0.0005	0.005	0.0021	0.0019	mg/L	16/48 (33%)
Total Barium	48	0.029	0.097	0.0542	0.0145	mg/L	48/48 (100%)
Total Beryllium	48	0.0005	0.0005	0.0005	0	mg/L	0/48 (0%)
Total Cadmium	48	0.0005	0.001	0.0006	0.0002	mg/L	0/48 (0%)
Total Calcium	48	17.6	82.4	53.1537	14.9744	mg/L	48/48 (100%)
Total Chromium	48	0.0005	0.0025	0.0012	0.0009	mg/L	9/48 (19%)
Total Cobalt	48	0.0005	0.233	0.0065	0.0335	mg/L	1/48 (2%)
Total Copper	48	0.0005	0.003	0.0013	0.0009	mg/L	11/48 (23%)
Total Iron	48	0.005	1.25	0.1836	0.2763	mg/L	24/48 (50%)
Total Lead	48	0.0005	0.003	0.0012	0.0011	mg/L	1/48 (2%)
Total Magnesium	48	0.873	7.9	2.5641	1.2786	mg/L	48/48 (100%)
Total Manganese	48	0.0005	0.608	0.0728	0.1302	mg/L	38/48 (79%)
Total Mercury	48	0.0001	0.0001	0.0001	0	mg/L	0/48 (0%)
Total Molybdenum	48	0.0025	0.0025	0.0025	0	mg/L	0/48 (0%)
Total Nickel	48	0.0005	0.006	0.0016	0.0012	mg/L	17/48 (35%)

NOTES:

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 3: Summary of Small Tributary Samples – Base Flow Conditions**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Total Potassium	48	1.19	14	4.3236	3.645	mg/L	48/48 (100%)
Total Selenium	48	0.0005	0.005	0.0017	0.002	mg/L	1/48 (2%)
Total Silver	48	0.0005	0.0025	0.001	0.0009	mg/L	0/48 (0%)
Total Sodium	48	2.43	64.1	11.0305	14.044	mg/L	48/48 (100%)
Total Thallium	48	0.0005	0.01	0.0031	0.0043	mg/L	0/48 (0%)
Total Vanadium	48	0.0005	0.084	0.0134	0.0233	mg/L	12/48 (25%)
Total Zinc	48	0.0025	0.096	0.0112	0.0178	mg/L	20/48 (42%)
Ammonia Nitrogen	37	0.05	3.49	0.1859	0.5621	mg/L	18/37 (49%)
Nitrite + Nitrate (as N)	48	0.05	14.8	2.4936	3.314	mg/L	46/48 (96%)
Total Kjeldahl Nitrogen	46	0.25	7.6	2.087	1.6873	mg/L	40/46 (87%)
Brevibacteria 16S rRNA	12	126000	126000	126000		Copies/L	4/12 (33%)
Dissolved Ortho P (365.2)	26	0.0125	0.939	0.0939	0.2154	mg/L	12/26 (46%)
Soluble Reactive P (4500PF)	53	0.0005	1.9468	0.2804	0.5826	mg/L	51/53 (96%)
Total Dissolved P (365.2)	26	0.0125	0.965	0.118	0.2464	mg/L	16/26 (62%)
Total Dissolved P (4500PF)	53	0.001	2.0462	0.2873	0.5929	mg/L	51/53 (96%)
Total Dissolved P (6010)	13	0.533	2.307	0.9978	0.5296	mg/L	13/13 (100%)
Total Dissolved P (6020)	35	0.011	1.99	0.3069	0.606	mg/L	35/35 (100%)
Total ortho P (365.2)	26	0.0125	0.849	0.1207	0.2183	mg/L	14/26 (54%)
Total P (365.2)	26	0.0125	1.081	0.1621	0.2669	mg/L	19/26 (73%)
Total P (4500PF)	53	0.0046	2.1018	0.337	0.6256	mg/L	53/53 (100%)
Total P (6010)	13	0.49	2.43	1.0662	0.5524	mg/L	13/13 (100%)
Total P (6020)	35	0.005	2.03	0.3253	0.6161	mg/L	34/35 (97%)
Total Sulfate (SO4)	48	1.89	67.5	13.8256	16.8239	mg/L	48/48 (100%)
DOC	12	0.5	2.93	1.8117	0.9129	mg/L	9/12 (75%)
TOC	48	0.5	14.7	2.2625	2.3668	mg/L	34/48 (71%)
Total Dissolved Solids	48	64	462	205.063	76.4915	mg/L	48/48 (100%)
Total Suspended Solids	48	1	74	6.8958	13.2717	mg/L	34/48 (71%)
Conductivity	37	0.17	0.554	0.2936	0.1002	mmhos/cm	37/37 (100%)
pH	37	6.4	8.21	7.4673	0.4975	s.u.	37/37 (100%)

**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations



**Appendix C: Water**  
**Table 4: Summary of Small Tributary Samples – High Flow Conditions**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Total Mercury	179	0.0001	0.0001	0.0001	0	mg/L	0/179 (0%)
Total Molybdenum	166	0.0025	0.0025	0.0025	0	mg/L	0/166 (0%)
Total Nickel	179	0.0005	0.006	0.0017	0.001	mg/L	102/179 (57%)
Total Potassium	179	1.02	16.9	4.2827	2.7297	mg/L	179/179 (100%)
Total Selenium	179	0.0005	0.005	0.0013	0.0017	mg/L	6/179 (3%)
Total Silver	179	0.0005	0.0025	0.0008	0.0008	mg/L	0/179 (0%)
Total Sodium	179	1.33	51.41	9.1508	8.9871	mg/L	179/179 (100%)
Total Thallium	179	0.0005	0.01	0.0022	0.0036	mg/L	3/179 (2%)
Total Vanadium	179	0.0005	0.01	0.0043	0.0016	mg/L	19/179 (11%)
Total Zinc	179	0.0025	0.17	0.0154	0.0239	mg/L	129/179 (72%)
Ammonia Nitrogen	177	0.01	1.52	0.1087	0.1508	mg/L	77/177 (44%)
Nitrite + Nitrate (as N)	177	0.05	14.747	2.2773	2.1757	mg/L	173/177 (98%)
Total Kjeldahl Nitrogen	175	0.25	154	3.312	11.5331	mg/L	162/175 (93%)
Brevibacteria 16S rRNA	27	236.9971	175098.8	64590.7	76462.423	Copies/L	16/27 (59%)
Dissolved Ortho P (365.2)	74	0.0125	1.73	0.2299	0.3885	mg/L	42/74 (57%)
Soluble Reactive P (4500PF)	140	0.0005	2.23	0.2652	0.4615	mg/L	137/140 (98%)
Total Dissolved P (365.2)	68	0.0125	2.75	0.3008	0.5295	mg/L	49/68 (72%)
Total Dissolved P (4500PF)	140	0.005	2.4	0.2932	0.5022	mg/L	140/140 (100%)
Total Dissolved P (6010)	31	0.24	2.128	1.0329	0.5044	mg/L	31/31 (100%)
Total Dissolved P (6020)	148	0.005	2.15	0.2735	0.4457	mg/L	140/148 (95%)
Total ortho P (365.2)	73	0.0125	1.54	0.2118	0.3516	mg/L	37/73 (51%)
Total P (365.2)	74	0.0125	4.266	0.2842	0.5752	mg/L	50/74 (68%)
Total P (4500PF)	140	0.0062	2.44	0.3117	0.5067	mg/L	140/140 (100%)
Total P (6010)	31	0.29	2.14	1.0474	0.4956	mg/L	31/31 (100%)
Total P (6020)	148	0.005	2.26	0.2995	0.4545	mg/L	142/148 (96%)
Total Sulfate (SO4)	177	0.5	70.51	16.2586	13.6765	mg/L	176/177 (99%)
TOC	175	0.5	22.7	4.2535	2.8076	mg/L	171/175 (98%)
Total Dissolved Solids	177	0.05	3300	213.260	316.3209	mg/L	176/177 (99%)
Total Suspended Solids	177	1	236	11.2712	24.4546	mg/L	151/177 (85%)
Conductivity	109	0.092	0.55	0.2524	0.0844	mmhos/cm	109/109 (100%)
pH	169	5.1	8.28	7.265	0.6133	s.u.	169/169 (100%)

**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations



**Appendix C: Water**  
**Table 5: Summary of Surface Water/Rivers Base Flow**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Total Manganese	91	0.001	0.729	0.0382	0.0863	mg/L	87/91 (96%)
Total Mercury	91	0.0001	0.0001	0.0001	0	mg/L	0/91 (0%)
Total Molybdenum	81	0.0005	0.01	0.0021	0.0016	mg/L	12/81 (15%)
Total Nickel	91	0.0005	0.008	0.0017	0.0017	mg/L	52/91 (57%)
Total Potassium	91	1.02	26.4	4.5787	4.3758	mg/L	91/91 (100%)
Total Selenium	91	0.0005	0.005	0.0011	0.0013	mg/L	31/91 (34%)
Total Silver	91	0.0005	0.003	0.0007	0.0007	mg/L	2/91 (2%)
Total Sodium	91	2.3	98.9	13.5931	18.2596	mg/L	91/91 (100%)
Total Thallium	91	0.0005	0.01	0.0014	0.0029	mg/L	1/91 (1%)
Total Vanadium	91	0.0005	0.111	0.0188	0.0273	mg/L	34/91 (37%)
Total Zinc	105	0.0025	0.341	0.0101	0.0337	mg/L	39/105 (37%)
Ammonia Nitrogen	74	0.05	0.273	0.059	0.0376	mg/L	6/74 (8%)
Nitrite + Nitrate (as N)	347	0.05	14	1.5133	1.7799	mg/L	298/347 (86%)
Total Kjeldahl Nitrogen	345	0.25	10.1	1.6238	1.3784	mg/L	314/345 (91%)
Brevibacteria 16S rRNA	27	2855.611	329000	113985	186243.50	Copies/L	13/27 (48%)
Dissolved Ortho P (365.2)	33	0.0125	0.617	0.0395	0.1054	mg/L	9/33 (27%)
Soluble Reactive P (4500PF)	919	0.0005	14.7603	0.1085	0.5199	mg/L	911/919 (99%)
Total Dissolved P (365.2)	33	0.0125	0.663	0.0547	0.1128	mg/L	18/33 (55%)
Total Dissolved P (4500PF)	919	0.001	15.4509	0.1183	0.5447	mg/L	917/919 (100%)
Total Dissolved P (6010)	12	0.542	0.788	0.6691	0.0764	mg/L	12/12 (100%)
Total Dissolved P (6020)	93	0.005	1.43	0.1303	0.2246	mg/L	91/93 (98%)
Total ortho P (365.2)	32	0.0125	0.617	0.046	0.1063	mg/L	13/32 (41%)
Total P (365.2)	32	0.0125	0.733	0.061	0.1273	mg/L	17/32 (53%)
Total P (4500PF)	919	0.0044	15.7048	0.1466	0.6096	mg/L	919/919 (100%)
Total P (6010)	12	0.57	0.92	0.6867	0.0959	mg/L	12/12 (100%)
Total P (6020)	93	0.005	1.516	0.1463	0.2344	mg/L	92/93 (99%)
Total Sulfate (SO4)	81	1.52	101	17.7788	18.8386	mg/L	81/81 (100%)
DOC	67	0.5	9.07	2.3604	1.6414	mg/L	58/67 (87%)
TOC	461	0.5	18.6	2.2249	1.9563	mg/L	360/461 (78%)
Total Dissolved Solids	124	35	440	179.218	68.4266	mg/L	124/124 (100%)
Total Suspended Solids	124	1	53	5.0161	6.4126	mg/L	102/124 (82%)
Conductivity	4	0.19	0.276	0.2355	0.0403	mmhos/cm	4/4 (100%)
pH	69	6.3	8.3	7.2651	0.4005	s.u.	69/69 (100%)
Turbidity	20	0.5	5.18	1.3915	1.1553	NTU	12/20 (60%)

**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 6: Summary of Surface Water/Rivers High Flow**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Alkalinity (as CaCO <sub>3</sub> )	20	28	134	83.35	30.5154	mg/L	20/20 (100%)
Campylobacter species	14	0.5	1	0.9286	0.1816	MPN*/100ml	0/14 (0%)
E. coli	46	2	13000	658.087	2007.6099	MPN*/100ml	46/46 (100%)
Enterococcus Group	48	0.5	11000	843.823	1991.771	MPN*/100ml	47/48 (98%)
Fecal Coliform	48	5	13000	1064.38	2313.6484	MPN*/100ml	48/48 (100%)
Salmonella species	46	1	8	1.2609	1.0632	MPN*/100ml	6/46 (13%)
Staphylococcus aureus	47	0.55	150	4.9181	22.3808	MPN*/100ml	9/47 (19%)
Total Coliform	48	80	20000	3081.88	4779.9082	MPN*/100ml	48/48 (100%)
Chloride	28	0.5	32.3	10.4407	6.9343	mg/L	27/28 (96%)
Chlorophyll a, corrected	35	0.05	15	2.2471	3.2756	ug/L	34/35 (97%)
Chlorophyll a, uncorrected	35	0.1	18	3.0143	3.862	ug/L	35/35 (100%)
COD (Chemical Oxygen Demand)	6	5	14	8.6667	3.5449	mg/L	4/6 (67%)
17a-estradiol	19	0.5	3.25	1.2763	1.057	ng/L	0/19 (0%)
17b-estradiol	19	0.5	5.67	1.7516	1.473	ng/L	3/19 (16%)
Estriol	19	0.5	3.25	1.2763	1.057	ng/L	0/19 (0%)
Estrone	19	0.5	23.3	2.4763	5.1489	ng/L	1/19 (5%)
Dissolved Aluminum	23	0.005	0.277	0.0822	0.0783	mg/L	8/23 (35%)
Dissolved Antimony	23	0.0005	0.0005	0.0005	0	mg/L	0/23 (0%)
Dissolved Arsenic	24	0.0005	0.002	0.0007	0.0004	mg/L	7/24 (29%)
Dissolved Barium	23	0.026	0.086	0.046	0.0118	mg/L	23/23 (100%)
Dissolved Beryllium	23	0.0005	0.0005	0.0005	0	mg/L	0/23 (0%)
Dissolved Cadmium	23	0.0005	0.0005	0.0005	0	mg/L	0/23 (0%)
Dissolved Calcium	23	12	55.9	40.1223	11.5194	mg/L	23/23 (100%)
Dissolved Chromium	23	0.0005	0.003	0.0009	0.0007	mg/L	7/23 (30%)
Dissolved Cobalt	23	0.0005	0.001	0.0005	0.0001	mg/L	2/23 (9%)
Dissolved Copper	24	0.0005	0.007	0.0014	0.0014	mg/L	12/24 (50%)
Dissolved Iron	23	0.017	0.294	0.093	0.0828	mg/L	11/23 (48%)
Dissolved Lead	23	0.0005	0.001	0.0005	0.0001	mg/L	1/23 (4%)
Dissolved Magnesium	23	1.25	4.557	2.0647	0.7066	mg/L	23/23 (100%)
Dissolved Manganese	23	0.001	0.157	0.0145	0.0319	mg/L	23/23 (100%)
Dissolved Mercury	23	0.0001	0.0001	0.0001	0	mg/L	0/23 (0%)
Dissolved Molybdenum	22	0.0005	0.0025	0.0023	0.0005	mg/L	2/22 (9%)
Dissolved Nickel	23	0.0005	0.003	0.0012	0.0008	mg/L	13/23 (57%)
Dissolved Potassium	23	1.77	8.72	3.68	1.6819	mg/L	23/23 (100%)
Dissolved Selenium	23	0.0005	0.001	0.0005	0.0001	mg/L	2/23 (9%)
Dissolved Silver	23	0.0005	0.0005	0.0005	0	mg/L	0/23 (0%)
Dissolved Sodium	23	2.67	33.8	8.1882	7.4837	mg/L	23/23 (100%)
Dissolved Thallium	23	0.0005	0.0005	0.0005	0	mg/L	0/23 (0%)
Dissolved Vanadium	23	0.0005	0.009	0.0043	0.0019	mg/L	3/23 (13%)
Dissolved Zinc	24	0.0025	0.012	0.0059	0.0031	mg/L	16/24 (67%)
Total Aluminum	24	0.005	3.81	0.6905	1.1176	mg/L	15/24 (63%)
Total Antimony	24	0.0005	0.001	0.0005	0.0001	mg/L	1/24 (4%)
Total Arsenic	25	0.0005	0.002	0.0009	0.0005	mg/L	11/25 (44%)
Total Barium	24	0.028	0.091	0.0518	0.014	mg/L	24/24 (100%)
Total Beryllium	24	0.0005	0.0005	0.0005	0	mg/L	0/24 (0%)
Total Cadmium	24	0.0005	0.0005	0.0005	0	mg/L	0/24 (0%)
Total Calcium	24	11.8	61	38.9846	11.1614	mg/L	24/24 (100%)
Total Chromium	24	0.0005	0.007	0.0017	0.0021	mg/L	11/24 (46%)
Total Cobalt	24	0.0005	0.003	0.0008	0.0006	mg/L	5/24 (21%)
Total Copper	25	0.0005	0.005	0.0015	0.0014	mg/L	14/25 (56%)
Total Iron	24	0.015	6.39	0.9688	1.6566	mg/L	18/24 (75%)
Total Lead	24	0.0005	0.01	0.0019	0.0025	mg/L	7/24 (29%)
Total Magnesium	24	1.33	3.828	2.0855	0.6093	mg/L	24/24 (100%)
Total Manganese	24	0.002	0.357	0.0604	0.0951	mg/L	24/24 (100%)

NOTES:

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 6: Summary of Surface Water/Rivers High Flow**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Total Mercury	24	0.0001	0.0001	0.0001	0	mg/L	0/24 (0%)
Total Molybdenum	18	0.0005	0.0025	0.0023	0.0006	mg/L	2/18 (11%)
Total Nickel	24	0.0005	0.007	0.0019	0.0017	mg/L	15/24 (63%)
Total Potassium	24	1.87	9.46	3.7281	1.7124	mg/L	24/24 (100%)
Total Selenium	24	0.0005	0.001	0.0006	0.0002	mg/L	3/24 (13%)
Total Silver	24	0.0005	0.0005	0.0005	0	mg/L	0/24 (0%)
Total Sodium	24	2.44	35.2	7.9561	7.548	mg/L	24/24 (100%)
Total Thallium	24	0.0005	0.0005	0.0005	0	mg/L	0/24 (0%)
Total Vanadium	24	0.0005	0.088	0.0083	0.0172	mg/L	5/24 (21%)
Total Zinc	25	0.0025	0.028	0.0083	0.0073	mg/L	16/25 (64%)
Ammonia Nitrogen	17	0.05	0.222	0.0631	0.0427	mg/L	2/17 (12%)
Nitrite + Nitrate (as N)	56	0.19	7.28	1.6363	1.4432	mg/L	56/56 (100%)
Total Kjeldahl Nitrogen	59	0.25	15.7	2.7766	3.0908	mg/L	56/59 (95%)
Brevibacteriia 16S rRNA	10					Copies/L	1/10 (10%)
Dissolved Ortho P (365.2)	5	0.0125	0.501	0.1212	0.2128	mg/L	3/5 (60%)
Soluble Reactive P (4500PF)	148	0.0027	1.6017	0.0734	0.1651	mg/L	148/148 (100%)
Total Dissolved P (365.2)	5	0.0125	1.014	0.2209	0.4437	mg/L	2/5 (40%)
Total Dissolved P (4500PF)	148	0.0047	1.8339	0.0855	0.1839	mg/L	148/148 (100%)
Total Dissolved P (6020)	24	0.015	1.118	0.1237	0.2201	mg/L	24/24 (100%)
Total ortho P (365.2)	5	0.0125	0.1565	0.0579	0.0597	mg/L	2/5 (40%)
Total P (365.2)	5	0.0125	1.014	0.2477	0.4293	mg/L	4/5 (80%)
Total P (4500PF)	148	0.0098	2.2298	0.1186	0.2216	mg/L	148/148 (100%)
Total P (6020)	25	0.034	1.09	0.1595	0.2085	mg/L	25/25 (100%)
Total Sulfate (SO4)	20	1.23	37.9	11.674	9.1856	mg/L	20/20 (100%)
TTHMFP as CHCl3	1	36.9	36.9	36.9		ug/L	1/1 (100%)
DOC	19	0.5	7.39	3.2542	2.071	mg/L	18/19 (95%)
TOC	66	0	7.38	2.308	1.6175	mg/L	57/66 (86%)
Total Dissolved Solids	32	78	256	150.875	38.7979	mg/L	32/32 (100%)
Total Suspended Solids	32	1	88	15.25	24.3986	mg/L	30/32 (94%)
Conductivity	6	0.12	0.269	0.1803	0.0514	mmhos/cm	6/6 (100%)
pH	12	6.5	7.3	6.8333	0.2188	s.u.	12/12 (100%)
Turbidity	10	0.5	46.7	7.115	14.1407	NTU	8/10 (80%)

## NOTES:

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 7: Summary of USGS Sampling Base Flow**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Alkalinity (as CaCO <sub>3</sub> )	69	69	142	106.362	15.047	mg/L	69/69 (100%)
Campylobacter species	13	1	1	1	0	MPN*/100ml	0/13 (0%)
E. coli	75	0.5	4000	99.46	480.3725	MPN*/100ml	67/75 (89%)
Enterococcus Group	80	1	4000	107.513	459.0388	MPN*/100ml	74/80 (93%)
Fecal Coliform	79	0.5	5400	160.709	667.2722	MPN*/100ml	75/79 (95%)
Fecal Streptococci	1	13	13	13		colonies per 100 milliliters	1/1 (100%)
Salmonella species	61	1	8	1.2131	0.933	MPN*/100ml	7/61 (11%)
Staphylococcus aureus	74	0.5	290	12.9791	47.3349	MPN*/100ml	13/74 (18%)
Total Coliform	86	8	16000	1088.98	2891.4381	MPN*/100ml	86/86 (100%)
Chloride	57	4.7	26	14.2279	6.5721	mg/L	57/57 (100%)
Chlorophyll a	7	0.8	6.5	2.8857	1.827	ug/L	7/7 (100%)
17a-estradiol	55	0.5	2.5	0.7045	0.5914	ng/L	0/55 (0%)
17b-estradiol	55	0.5	4.73	0.9978	1.0984	ng/L	5/55 (9%)
Estriol	55	0.5	2.5	0.7045	0.5914	ng/L	0/55 (0%)
Estrone	55	0.5	8.3	1.3361	1.7852	ng/L	9/55 (16%)
Dissolved Aluminum	60	0.0009	0.0539	0.0032	0.0069	mg/L	60/60 (100%)
Dissolved Antimony	60	0	0.0002	0.0001	0	mg/L	31/60 (52%)
Dissolved Arsenic	60	0.0002	0.001	0.0005	0.0002	mg/L	60/60 (100%)
Dissolved Barium	60	0.028	0.071	0.0487	0.0101	mg/L	60/60 (100%)
Dissolved Beryllium	60	0	0	0	0	mg/L	0/60 (0%)
Dissolved Cadmium	60	0	0	0	0	mg/L	19/60 (32%)
Dissolved Calcium	60	32.7	53.5	44.88	4.8897	mg/L	60/60 (100%)
Dissolved Chromium	60	0.0005	0.002	0.001	0.0003	mg/L	8/60 (13%)
Dissolved Cobalt	59	0	0.0006	0.0002	0.0001	mg/L	59/59 (100%)
Dissolved Copper	59	0.0002	0.0131	0.0014	0.0019	mg/L	52/59 (88%)
Dissolved Iron	60	0.003	0.016	0.0043	0.0025	mg/L	30/60 (50%)
Dissolved Lead	60	0	0.0003	0.0001	0.0001	mg/L	38/60 (63%)
Dissolved Magnesium	60	1.31	2.51	2.069	0.3086	mg/L	60/60 (100%)
Dissolved Manganese	60	0.0009	0.0277	0.0066	0.0061	mg/L	60/60 (100%)
Dissolved Mercury	49	0	0	0	0	mg/L	8/49 (16%)
Dissolved Molybdenum	60	0.0002	0.0021	0.0008	0.0004	mg/L	60/60 (100%)
Dissolved Nickel	59	0.0002	0.0042	0.0015	0.0011	mg/L	59/59 (100%)
Dissolved Potassium	60	1.66	6	3.9342	1.4062	mg/L	60/60 (100%)
Dissolved Selenium	60	0.0001	0.0004	0.0002	0.0001	mg/L	60/60 (100%)
Dissolved Silver	60	0	0.0001	0.0001	0	mg/L	0/60 (0%)
Dissolved Sodium	60	2.86	24.8	12.3305	6.6698	mg/L	60/60 (100%)
Dissolved Thallium	60	0	0	0	0	mg/L	3/60 (5%)
Dissolved Vanadium	60	0.0002	0.0019	0.0008	0.0004	mg/L	60/60 (100%)
Dissolved Zinc	60	0.0004	0.0086	0.0023	0.0016	mg/L	58/60 (97%)
Total Aluminum	60	0.001	0.261	0.0492	0.058	mg/L	60/60 (100%)
Total Antimony	60	0	0.0002	0.0001	0	mg/L	23/60 (38%)
Total Arsenic	57	0.0002	0.001	0.0006	0.0002	mg/L	48/57 (84%)
Total Barium	60	0.0268	0.0699	0.0485	0.0103	mg/L	60/60 (100%)
Total Beryllium	60	0	0	0	0	mg/L	1/60 (2%)
Total Cadmium	60	0	0	0	0	mg/L	26/60 (43%)
Total Calcium	60	32.9	56.3	44.5617	4.8685	mg/L	60/60 (100%)
Total Chromium	60	0.0004	0.001	0.0007	0.0003	mg/L	6/60 (10%)
Total Cobalt	57	0	0.0008	0.0002	0.0002	mg/L	57/57 (100%)
Total Copper	57	0.0003	0.0045	0.0009	0.0007	mg/L	38/57 (67%)
Total Iron	60	0.003	0.308	0.0664	0.0772	mg/L	59/60 (98%)
Total Lead	60	0	0.0006	0.0001	0.0001	mg/L	54/60 (90%)
Total Magnesium	60	1.2	2.43	1.9802	0.2919	mg/L	60/60 (100%)
Total Manganese	60	0.0015	0.061	0.0125	0.0138	mg/L	60/60 (100%)

NOTES:

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 7: Summary of USGS Sampling Base Flow**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Total Mercury	49	0	0	0	0	mg/L	10/49 (20%)
Total Molybdenum	60	0.0002	0.0019	0.0008	0.0004	mg/L	60/60 (100%)
Total Nickel	57	0.0001	0.0033	0.001	0.0006	mg/L	57/57 (100%)
Total Potassium	60	1.51	6.2	3.8337	1.3665	mg/L	60/60 (100%)
Total Selenium	57	0.0001	0.0008	0.0003	0.0002	mg/L	57/57 (100%)
Total Silver	60	0	0.0001	0	0	mg/L	0/60 (0%)
Total Sodium	60	2.6	24.3	12.0783	6.5657	mg/L	60/60 (100%)
Total Thallium	60	0	0.0001	0.0001	0	mg/L	3/60 (5%)
Total Vanadium	60	0.0005	0.002	0.001	0.0003	mg/L	24/60 (40%)
Total Zinc	57	0.001	0.003	0.0012	0.0005	mg/L	25/57 (44%)
Agency analyzing sample, code	36	80020	80020	80020	0	NA	36/36 (100%)
Air Temperature	98	-3.3	39.3	21.5867	10.281	C	98/98 (100%)
Altitude of land surface, feet	9	664.14	893.78	787.12	109.5435	feet	9/9 (100%)
ANC as CaCO <sub>3</sub>	1	91	91	91		mg/L as CaCO <sub>3</sub>	1/1 (100%)
Barometric pressure	102	729	755	741.471	4.9746	mmHg	102/102 (100%)
Discharge	95	6.3	2280	172.175	329.9262	cfs	95/95 (100%)
Drainage area, square miles	11	89.6	959	498.927	369.4605	sq miles	11/11 (100%)
Gage height	102	1.58	9.95	4.3475	1.5329	feet	102/102 (100%)
Loss on ignition	1	1	1	1		mg/L	1/1 (100%)
Pheophytin a	7	0.4	3200	1401.13	1505.429	ug/L	7/7 (100%)
Phytoplankton Biomass - Ash Free Dry Mass	4	1.5	1.7	1.6125	0.0854	mg/L	0/4 (0%)
Phytoplankton Biomass - Ash Free Dry Mass	3	1.6	1.9	1.7667	0.1528	ug/L	0/3 (0%)
Phytoplankton Biomass - Ash Weight	4	127	153	141.75	11.7011	mg/L	4/4 (100%)
Phytoplankton Biomass - Dry Weight	4	129	155	144	11.9164	mg/L	4/4 (100%)
Residue	22	103	201	152.682	31.3997	mg/L	22/22 (100%)
Residue	22	0.16	0.3	0.2291	0.0422	tons per acre-foot	22/22 (100%)
Residue	18	6.71	216	81.06	71.5268	tons per day	18/18 (100%)
Residue on evap.	46	112	234	177.533	33.4811	mg/L	46/46 (100%)
Sampler type, code	29	3044	3060	3045.31	2.8549	NA	29/29 (100%)
Sampling method, code	30	10	40	18.6667	13.5782	NA	30/30 (100%)
Suspended sediment <0.063 mm	37	48	100	75.7838	15.1385	%	37/37 (100%)
Suspended sediment <0.063 mm	10	56	87	71	9.0062	<.063mm	10/10 (100%)
Suspended sediment concentration	47	0	42	7.5532	8.2668	mg/L	47/47 (100%)
Total Residue	1	2	2	2		mg/L	1/1 (100%)
Turbidity - IR LEE Light	81	0	260	6.9605	29.5943	FNU	80/81 (99%)
Turbidity - White Light	101	1	12	2.1802	2.3092	NTRU	33/101 (33%)
Ammonia	96	0.005	2.53	0.0424	0.2585	mg/L as N	60/96 (63%)
Ammonia (as NH <sub>4</sub> )	1	0.42	0.42	0.42		mg/L as NH <sub>4</sub>	1/1 (100%)
Ammonia Nitrogen	96	0.05	3.2	0.2496	0.3989	mg/L as N	93/96 (97%)
Nitrate	21	2.95	58.2	16.9305	12.7108	mg/L	21/21 (100%)
Nitrate (as N)	21	0.67	13.1	3.8229	2.8636	mg/L as N	21/21 (100%)
Nitrite	21	0.007	0.133	0.0189	0.0267	mg/L	21/21 (100%)
Nitrite (as N)	96	0.001	0.188	0.0062	0.0193	mg/L as N	93/96 (97%)
Nitrite + Nitrate (as N)	95	0.184	13.1	2.1099	1.9242	mg/L as N	95/95 (100%)
Organic nitrogen	1	0.42	0.42	0.42		mg/L	1/1 (100%)
Total nitrogen	20	0.89	13	4.3295	2.8851	mg/L	20/20 (100%)
Dissolved Phosphorus	96	0.013	1.99	0.1537	0.3138	mg/L	96/96 (100%)
Orthophosphate	124	0.006	5.03	0.2864	0.732	mg/L	124/124 (100%)
Total Phosphorus	96	0.017	2.11	0.163	0.3201	mg/L	96/96 (100%)

**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 7: Summary of USGS Sampling Base Flow**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Sulfate	57	5	27.4	14.8856	6.2662	mg/L	57/57 (100%)
TOC	64	0.7	4.8	1.6641	0.7745	mg/L	64/64 (100%)
Bicarbonate	72	84	172	128.736	17.7105	mg/L	72/72 (100%)
Biomass/chlorophyll ratio	3	462	1570	971.333	559.3758	number	3/3 (100%)
Carbonate	72	0	3	0.4861	0.5033	mg/L	32/72 (44%)
Dissolved oxygen (%)	29	81	145	107.586	14.5124	%	29/29 (100%)
DO	103	3.3	16.7	9.9961	2.5007	mg/L	103/103 (100%)
Hardness (as CaCO <sub>3</sub> )	22	89	140	117.136	14.3271	mg/L as CaCO <sub>3</sub>	22/22 (100%)
Hydrogen ion	30	0	0	0	0	mg/L	30/30 (100%)
Noncarbonate hardness (as CaCO <sub>3</sub> ) - filtered	22	4	37	19.7273	8.4975	mg/L as CaCO <sub>3</sub>	22/22 (100%)
Noncarbonate hardness (as CaCO <sub>3</sub> ) - unfiltered	1	11	11	11		mg/L as CaCO <sub>3</sub>	1/1 (100%)
pH	105	6.4	8.7	7.8429	0.3749	s.u.	105/105 (100%)
Sodium adsorption ratio	22	0.1	0.7	0.3909	0.2022	number	22/22 (100%)
Sodium fraction of cations	22	6	23	13.9545	5.9078	%	22/22 (100%)
Specific Conductance	13	31	395	295.769	107.9662	ms/cm at 25C	13/13 (100%)
Specific conductance	76	193	448	312.592	64.7022	uS/cm	76/76 (100%)
Specific conductance	74	201	590	311.622	74.0344	uS/cm 25C	74/74 (100%)
Suspended sediment discharge	6	0.13	13	3.3017	5.1491	tons per day	6/6 (100%)
Water Temperature	105	5.5	29.4	18.0552	7.2788	C	105/105 (100%)

**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 8: Summary of USGS Sampling High Flow**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Alkalinity (as CaCO3)	94	9	126	87.3085	25.8324	mg/L	94/94 (100%)
Campylobacter species	18	1	1	1	0	MPN*/100ml	0/18 (0%)
E. coli	103	0.5	24000	2533.79	4185.7262	MPN*/100ml	102/103 (99%)
Enterococcus Group	103	0.5	170000	4484.9	17372.438	MPN*/100ml	102/103 (99%)
Fecal Coliform	88	0.5	14000	2506.52	3772.8115	MPN*/100ml	87/88 (99%)
Salmonella species	86	1	18	1.6628	2.5558	MPN*/100ml	14/86 (16%)
Staphylococcus aureus	91	0.55	2600	49.1681	292.5026	MPN*/100ml	9/91 (10%)
Total Coliform	108	18	540000	14332.5	55351.981	MPN*/100ml	108/108 (100%)
Chloride	80	2.46	29.7	12.8302	7.2159	mg/L	80/80 (100%)
Chlorophyll a	2	1.1	1.2	1.15	0.0707	ug/L	2/2 (100%)
17a-estradiol	92	0.5	12.5	1.5326	2.4962	ng/L	0/92 (0%)
17b-estradiol	92	0.5	12.5	1.6185	2.5284	ng/L	2/92 (2%)
Estriol	92	0.5	12.5	1.5326	2.4962	ng/L	0/92 (0%)
Estrone	92	0.5	16.1	1.909	3.1013	ng/L	5/92 (5%)
Dissolved Aluminum	83	0.001	0.0252	0.0039	0.0043	mg/L	83/83 (100%)
Dissolved Antimony	83	0	0.0002	0.0001	0	mg/L	54/83 (65%)
Dissolved Arsenic	83	0.0002	0.0011	0.0005	0.0002	mg/L	83/83 (100%)
Dissolved Barium	83	0.023	0.065	0.0454	0.0089	mg/L	83/83 (100%)
Dissolved Beryllium	83	0	0	0	0	mg/L	1/83 (1%)
Dissolved Cadmium	83	0	0.0001	0	0	mg/L	27/83 (33%)
Dissolved Calcium	83	19.1	50.1	40.5012	6.6137	mg/L	83/83 (100%)
Dissolved Chromium	83	0.0005	0.002	0.0009	0.0002	mg/L	7/83 (8%)
Dissolved Cobalt	82	0	0.0009	0.0002	0.0002	mg/L	82/82 (100%)
Dissolved Copper	82	0.0003	0.0174	0.0021	0.0028	mg/L	75/82 (91%)
Dissolved Iron	83	0.003	0.073	0.0121	0.0139	mg/L	70/83 (84%)
Dissolved Lead	83	0	0.0032	0.0002	0.0004	mg/L	53/83 (64%)
Dissolved Magnesium	83	1.02	2.52	1.99	0.2951	mg/L	83/83 (100%)
Dissolved Manganese	83	0.001	0.0245	0.0062	0.0058	mg/L	83/83 (100%)
Dissolved Mercury	47	0	0	0	0	mg/L	8/47 (17%)
Dissolved Molybdenum	83	0.0002	0.0019	0.0007	0.0004	mg/L	83/83 (100%)
Dissolved Nickel	81	0.0002	0.0048	0.0016	0.0012	mg/L	81/81 (100%)
Dissolved Potassium	83	1.89	7.13	4.0555	1.2709	mg/L	83/83 (100%)
Dissolved Selenium	83	0.0001	0.0005	0.0003	0.0001	mg/L	83/83 (100%)
Dissolved Silver	83	0	0.0001	0.0001	0	mg/L	0/83 (0%)
Dissolved Sodium	83	1.62	29.8	11.0342	7.0076	mg/L	83/83 (100%)
Dissolved Thallium	83	0	0	0	0	mg/L	1/83 (1%)
Dissolved Vanadium	83	0.0002	0.0016	0.0007	0.0003	mg/L	83/83 (100%)
Dissolved Zinc	83	0.0004	0.0851	0.0044	0.0098	mg/L	78/83 (94%)
Total Aluminum	83	0.012	8.7	0.4825	1.3834	mg/L	83/83 (100%)
Total Antimony	83	0	0.0002	0.0001	0	mg/L	43/83 (52%)
Total Arsenic	82	0.0003	0.0048	0.0008	0.0007	mg/L	76/82 (93%)
Total Barium	83	0.0271	0.21	0.0535	0.0269	mg/L	83/83 (100%)
Total Beryllium	83	0	0.0014	0.0001	0.0002	mg/L	27/83 (33%)
Total Cadmium	83	0	0.0007	0	0.0001	mg/L	64/83 (77%)
Total Calcium	83	28.1	50.7	40.7855	5.7602	mg/L	83/83 (100%)
Total Chromium	83	0.0004	0.015	0.0013	0.0025	mg/L	26/83 (31%)
Total Cobalt	82	0	0.0133	0.0008	0.002	mg/L	82/82 (100%)
Total Copper	82	0.0004	0.0149	0.0016	0.0024	mg/L	71/82 (87%)
Total Iron	83	0.019	13.7	0.6753	2.0973	mg/L	83/83 (100%)
Total Lead	82	0	0.0253	0.0013	0.004	mg/L	77/82 (94%)
Total Magnesium	83	1.36	2.52	1.9766	0.2449	mg/L	83/83 (100%)
Total Manganese	83	0.0022	1.7	0.0818	0.2695	mg/L	83/83 (100%)
Total Mercury	47	0	0.0001	0	0	mg/L	19/47 (40%)
Total Molybdenum	83	0.0002	0.0017	0.0007	0.0004	mg/L	83/83 (100%)

**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 8: Summary of USGS Sampling High Flow**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Total Nickel	82	0.0001	0.0235	0.0022	0.0039	mg/L	82/82 (100%)
Total Potassium	83	1.82	6.7	4.0064	1.2368	mg/L	83/83 (100%)
Total Selenium	82	0.0001	0.0008	0.0003	0.0001	mg/L	82/82 (100%)
Total Silver	83	0	0.0003	0	0	mg/L	15/83 (18%)
Total Sodium	83	1.6	29.8	10.9458	7.0695	mg/L	83/83 (100%)
Total Thallium	83	0	0.0002	0.0001	0	mg/L	3/83 (4%)
Total Vanadium	83	0.0005	0.02	0.0021	0.0037	mg/L	56/83 (67%)
Total Zinc	82	0.001	0.067	0.0047	0.0101	mg/L	64/82 (78%)
Agency analyzing sample, code	39	80020	80020	80020	0	NA	39/39 (100%)
Air Temperature	86	-4.5	41.6	18.7547	10.2884	C	86/86 (100%)
Altitude of land surface, feet	21	664.14	893.78	772.867	97.0897	feet	21/21 (100%)
Barometric pressure	105	711	757	741.61	6.8198	mmHg	105/105 (100%)
Discharge	90	17	43100	2100.27	6256.9328	cfs	90/90 (100%)
Drainage area, square miles	24	89.6	959	421.075	337.3931	sq miles	24/24 (100%)
Gage height	93	1.96	23.48	5.9611	3.1259	feet	93/93 (100%)
Pheophytin a	2	0.8	1	0.9	0.1414	ug/L	2/2 (100%)
Phytoplankton Biomass - Ash	2	1.5	2.5	2	0.7071	ug/L	0/2 (0%)
Free Dry Mass							
Residue	24	99	184	140.958	23.5104	mg/L	24/24 (100%)
Residue	24	0.16	0.28	0.2258	0.0335	tons per acre-foot	24/24 (100%)
Residue	23	60.9	908	333.561	257.0443	tons per day	23/23 (100%)
Residue on evap.	69	90	246	163.493	31.7266	mg/L	69/69 (100%)
Sample purpose, code	1	10	10	10		feet	1/1 (100%)
Sample purpose, code	7	10	10	10	0	NA	7/7 (100%)
Sample splitter type, field, code	6	60	60	60	0	NA	6/6 (100%)
Sampler type, code	34	3045	3061	3049.85	7.241	NA	34/34 (100%)
Sampling method, code	34	10	70	21.1765	15.7181	NA	34/34 (100%)
Suspended sediment <0.063 mm	32	48	100	82.5312	16.0784	%	32/32 (100%)
Suspended sediment <0.063 mm	7	67	100	84.7143	11.1013	<.063mm	7/7 (100%)
Suspended sediment concentration	39	2	1600	130.769	352.7225	mg/L	39/39 (100%)
Turbidity - IR LEE Light	85	0.5	780	59.1929	138.9649	FNU	84/85 (99%)
Turbidity - White Light	96	1	900	43.3698	134.6682	NTRU	77/96 (80%)
Ammonia	93	0.005	0.072	0.0184	0.0153	mg/L as N	61/93 (66%)
Ammonia (as NH4)	3	0.01	0.06	0.0367	0.0252	mg/L as NH4	3/3 (100%)
Ammonia Nitrogen	93	0.07	4.3	0.4771	0.6503	mg/L as N	92/93 (99%)
Nitrate	18	3.7	18.2	8.0739	3.4217	mg/L	18/18 (100%)
Nitrate (as N)	18	0.83	4.12	1.8233	0.774	mg/L as N	18/18 (100%)
Nitrite	18	0.007	0.051	0.0186	0.0116	mg/L	18/18 (100%)
Nitrite (as N)	93	0.001	0.019	0.0057	0.0043	mg/L as N	90/93 (97%)
Nitrite + Nitrate (as N)	92	0.019	4.53	1.793	0.9813	mg/L as N	92/92 (100%)
Organic nitrogen	3	0.47	0.69	0.55	0.1217	mg/L	3/3 (100%)
Total nitrogen	25	1	4.7	2.288	0.9833	mg/L	25/25 (100%)
Dissolved Phosphorus	93	0.009	0.37	0.1082	0.0779	mg/L	93/93 (100%)
Orthophosphate	119	0.003	0.896	0.1357	0.1381	mg/L	115/119 (97%)
Total Phosphorus	93	0.013	1.06	0.1756	0.1704	mg/L	93/93 (100%)
Sulfate	80	5.4	30.6	14.4122	6.5991	mg/L	80/80 (100%)
TOC	82	0.7	42.1	4.6549	6.5677	mg/L	82/82 (100%)
Bicarbonate	100	34	153	107.78	29.0547	mg/L	100/100 (100%)
Biomass/chlorophyll ratio	2	2360	4110	3235	1237.4369	number	2/2 (100%)
Carbonate	100	0	3	0.46	0.4533	mg/L	42/100 (42%)
Dissolved oxygen (%)	34	63	110	90.5882	11.5342	%	34/34 (100%)
DO	106	5.3	16.4	9.05	1.8148	mg/L	106/106 (100%)
Hardness (as CaCO3)	24	83	130	110.417	13.6793	mg/L as CaCO3	24/24 (100%)

NOTES:

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 8: Summary of USGS Sampling High Flow**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Hydrogen ion	34	0	0.0001	0	0	mg/L	34/34 (100%)
Noncarbonate hardness (as CaCO <sub>3</sub> ) - filtered	24	4	41	21.7917	11.0177	mg/L as CaCO <sub>3</sub>	24/24 (100%)
pH	104	6.2	8.8	7.6346	0.3746	s.u.	104/104 (100%)
Sodium adsorption ratio	24	0.1	0.6	0.3625	0.1637	number	24/24 (100%)
Sodium fraction of cations	24	6	21	13.8333	4.9226	%	24/24 (100%)
Specific Conductance	29	101	359	230.586	71.0676	ms/cm at 25C	29/29 (100%)
Specific conductance	67	128	423	299.597	81.2948	uS/cm	67/67 (100%)
Specific conductance	84	184	357	269.369	42.5293	uS/cm 25C	84/84 (100%)
Suspended sediment discharge	7	1.1	462	109.929	165.0522	tons per day	7/7 (100%)
Water Temperature	106	7.4	26.2	17.416	5.8457	C	106/106 (100%)

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**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 9: Summary of Lake Tenkiller Surface Water Samples**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Alkalinity (as CaCO <sub>3</sub> )	64	38	112	76.3438	15.1188	mg/L	64/64 (100%)
Campylobacter species	18	0.035	1	0.6356	0.4706	MPN*/100ml	0/18 (0%)
E. coli	39	1	69	3.7436	11.4311	MPN*/100ml	9/39 (23%)
Enterococcus Group	46	0.5	110	5.0652	16.5552	MPN*/100ml	11/46 (24%)
Fecal Coliform	46	0.5	1100	44.6739	168.1642	MPN*/100ml	24/46 (52%)
Salmonella species	39	1	2	1.0256	0.1601	MPN*/100ml	1/39 (3%)
Staphylococcus aureus	46	0.5	40	1.9902	6.0427	MPN*/100ml	3/46 (7%)
Total Coliform	46	0.5	810	92.8804	165.8161	MPN*/100ml	39/46 (85%)
Chloride	64	6.22	18.3	10.6625	2.6239	mg/L	64/64 (100%)
Chlorophyll a	11	0.0047	0.0204	0.0127	0.0042	mg/L	11/11 (100%)
Chlorophyll a, corrected	315	0.4	133.3	11.4387	11.7257	ug/L	315/315 (100%)
Chlorophyll a, uncorrected	315	0.6	151	12.8943	13.8781	ug/L	315/315 (100%)
COD (Chemical Oxygen Demand)	108	2.5	32	10.2731	5.1923	mg/L	59/108 (55%)
17a-estradiol	47	0.5	2.5	0.7979	0.7197	ng/L	0/47 (0%)
17b-estradiol	47	0.5	7.46	1.5064	1.7305	ng/L	10/47 (21%)
Estriol	47	0.5	2.5	0.7979	0.7197	ng/L	0/47 (0%)
Estrone	47	0.5	8.99	1.2747	1.5815	ng/L	7/47 (15%)
Dissolved Aluminum	86	0.005	0.177	0.0489	0.0279	mg/L	11/86 (13%)
Dissolved Antimony	86	0.0005	0.005	0.002	0.0021	mg/L	2/86 (2%)
Dissolved Arsenic	151	0.0005	0.005	0.0021	0.002	mg/L	36/151 (24%)
Dissolved Barium	86	0.027	0.061	0.0395	0.0069	mg/L	86/86 (100%)
Dissolved Beryllium	86	0.0005	0.0005	0.0005	0	mg/L	0/86 (0%)
Dissolved Cadmium	86	0.0005	0.001	0.0007	0.0002	mg/L	0/86 (0%)
Dissolved Calcium	86	19.845	46.4	32.9658	6.4589	mg/L	86/86 (100%)
Dissolved Chromium	86	0.0005	0.0025	0.0013	0.0009	mg/L	11/86 (13%)
Dissolved Cobalt	86	0.0005	0.005	0.0019	0.0021	mg/L	2/86 (2%)
Dissolved Copper	151	0.0005	0.0025	0.0011	0.0009	mg/L	4/151 (3%)
Dissolved Iron	86	0.005	0.221	0.0526	0.0375	mg/L	7/86 (8%)
Dissolved Lead	86	0.0005	0.003	0.0014	0.0012	mg/L	6/86 (7%)
Dissolved Magnesium	86	1.65	2.36	1.8964	0.1656	mg/L	86/86 (100%)
Dissolved Manganese	86	0.0005	0.704	0.0419	0.1101	mg/L	36/86 (42%)
Dissolved Mercury	86	0.0001	0.0001	0.0001	0	mg/L	0/86 (0%)
Dissolved Molybdenum	68	0.0025	0.025	0.0058	0.008	mg/L	0/68 (0%)
Dissolved Nickel	86	0.0005	0.005	0.0021	0.002	mg/L	24/86 (28%)
Dissolved Potassium	86	2.39	4.62	3.1027	0.5542	mg/L	86/86 (100%)
Dissolved Selenium	86	0.0005	0.005	0.002	0.0021	mg/L	0/86 (0%)
Dissolved Silver	86	0.0005	0.0025	0.0012	0.0009	mg/L	0/86 (0%)
Dissolved Sodium	86	4.504	13.8	7.4511	2.1527	mg/L	86/86 (100%)
Dissolved Thallium	86	0.0005	0.01	0.0036	0.0045	mg/L	0/86 (0%)
Dissolved Vanadium	86	0.0005	0.056	0.0085	0.0131	mg/L	10/86 (12%)
Dissolved Zinc	151	0.0025	0.026	0.0055	0.0031	mg/L	60/151 (40%)
Total Aluminum	52	0.005	1.427	0.1239	0.2712	mg/L	13/52 (25%)
Total Antimony	52	0.0005	0.0125	0.0038	0.0028	mg/L	4/52 (8%)
Total Arsenic	117	0.0005	0.005	0.0027	0.002	mg/L	43/117 (37%)
Total Barium	52	0.029	0.078	0.0403	0.0102	mg/L	52/52 (100%)
Total Beryllium	52	0.0005	0.001	0.0005	0.0001	mg/L	0/52 (0%)
Total Cadmium	52	0.0005	0.001	0.0008	0.0002	mg/L	0/52 (0%)
Total Calcium	52	19.965	41.986	30.9128	6.328	mg/L	52/52 (100%)
Total Chromium	52	0.0005	0.005	0.0021	0.001	mg/L	11/52 (21%)
Total Cobalt	52	0.0005	0.005	0.0033	0.0021	mg/L	5/52 (10%)
Total Copper	117	0.0005	0.0025	0.0014	0.001	mg/L	9/117 (8%)
Total Iron	52	0.005	2.497	0.2019	0.4238	mg/L	20/52 (38%)
Total Lead	52	0.0005	0.003	0.0021	0.0012	mg/L	6/52 (12%)
Total Magnesium	52	1.6	2.438	1.8796	0.2438	mg/L	52/52 (100%)

**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 9: Summary of Lake Tenkiller Surface Water Samples**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Total Manganese	52	0.0025	1.05	0.0952	0.1977	mg/L	33/52 (63%)
Total Mercury	52	0	0.0001	0.0001	0	mg/L	0/52 (0%)
Total Molybdenum	28	0.0025	0.005	0.0027	0.0007	mg/L	0/28 (0%)
Total Nickel	52	0.0005	0.005	0.002	0.001	mg/L	12/52 (23%)
Total Potassium	52	2.05	4.79	2.9553	0.5139	mg/L	52/52 (100%)
Total Selenium	52	0.0005	0.005	0.0033	0.002	mg/L	11/52 (21%)
Total Silver	52	0.0005	0.005	0.0019	0.0011	mg/L	2/52 (4%)
Total Sodium	52	4.299	13.551	6.7126	2.1393	mg/L	52/52 (100%)
Total Thallium	52	0.0005	0.01	0.006	0.0047	mg/L	1/52 (2%)
Total Vanadium	52	0.0005	0.014	0.0043	0.0026	mg/L	3/52 (6%)
Total Zinc	117	0.0025	0.02	0.0041	0.0023	mg/L	11/117 (9%)
Ammonia Nitrogen	71	0.05	0.379	0.066	0.0614	mg/L	6/71 (8%)
Nitrite + Nitrate (as N)	432	0.024	2.164	0.3428	0.4264	mg/L	230/432 (53%)
Total Kjeldahl Nitrogen	436	0.15	16	2.1847	1.7855	mg/L	399/436 (92%)
Brevibacteria 16S rRNA	3	0	0	0		Copies/L	1/3 (33%)
Dissolved Ortho P (365.2)	176	0.0125	0.077	0.0137	0.0069	mg/L	5/176 (3%)
Soluble Reactive P (4500PF)	444	0.0005	0.126	0.0082	0.0158	mg/L	307/444 (69%)
Total Dissolved P (365.2)	176	0.0125	0.194	0.0171	0.0208	mg/L	12/176 (7%)
Total Dissolved P (4500PF)	444	0.001	0.126	0.0117	0.0168	mg/L	435/444 (98%)
Total Dissolved P (6010)	46	0.259	0.653	0.489	0.0929	mg/L	46/46 (100%)
Total Dissolved P (6020)	105	0.005	0.203	0.0196	0.0308	mg/L	41/105 (39%)
Total ortho P (365.2)	175	0.0125	0.346	0.0219	0.0371	mg/L	20/175 (11%)
Total P (365.2)	175	0.0125	0.426	0.0321	0.0569	mg/L	31/175 (18%)
Total P (4500PF)	444	0.0038	0.5345	0.0378	0.0563	mg/L	444/444 (100%)
Total P (6010)	48	0.31	0.71	0.5096	0.097	mg/L	48/48 (100%)
Total P (6020)	67	0.005	0.264	0.0489	0.0585	mg/L	54/67 (81%)
Total Sulfate (SO4)	64	7.56	7055	231.654	1233.1188	mg/L	64/64 (100%)
DOC	92	0.5	3.92	2.1522	0.5292	mg/L	91/92 (99%)
TOC	293	1.2	5.49	2.1469	0.5234	mg/L	293/293 (100%)
Total Dissolved Solids	382	0.05	282	130.249	32.1448	mg/L	379/382 (99%)
Total Suspended Solids	382	1	168	6.9877	14.7052	mg/L	284/382 (74%)
Conductivity	20	0.173	0.266	0.2063	0.025	mmhos/cm	20/20 (100%)
pH	20	6	8	7.34	0.4661	s.u.	20/20 (100%)
Turbidity	192	0.5	66.9	3.8074	7.1313	NTU	138/192 (72%)

**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations



**Appendix C: Water**  
**Table 10: Summary of Reference Streams Base Flow**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Total Molybdenum	7	0.0005	0.0025	0.0019	0.001	mg/L	0/7 (0%)
Total Nickel	7	0.0005	0.0005	0.0005	0	mg/L	0/7 (0%)
Total Potassium	7	1.21	2.585	1.6077	0.4646	mg/L	7/7 (100%)
Total Selenium	7	0.0005	0.001	0.0006	0.0002	mg/L	1/7 (14%)
Total Silver	7	0.0005	0.0005	0.0005	0	mg/L	0/7 (0%)
Total Sodium	7	2.16	8.598	4.2424	2.1651	mg/L	7/7 (100%)
Total Thallium	7	0.0005	0.0005	0.0005	0	mg/L	0/7 (0%)
Total Vanadium	7	0.001	0.014	0.005	0.0052	mg/L	5/7 (71%)
Total Zinc	7	0.0025	0.0025	0.0025	0	mg/L	0/7 (0%)
Ammonia Nitrogen	4	0.05	0.05	0.05	0	mg/L	0/4 (0%)
Nitrite + Nitrate (as N)	17	0.05	0.789	0.1858	0.207	mg/L	8/17 (47%)
Total Kjeldahl Nitrogen	17	0.25	3.6	1.3774	1.0292	mg/L	15/17 (88%)
Dissolved Ortho P (365.2)	3	0.0125	0.0125	0.0125	0	mg/L	0/3 (0%)
Soluble Reactive P (4500PF)	33	0.0005	0.0371	0.0053	0.0082	mg/L	25/33 (76%)
Total Dissolved P (365.2)	3	0.0125	0.0125	0.0125	0	mg/L	0/3 (0%)
Total Dissolved P (4500PF)	33	0.001	0.0401	0.0072	0.0082	mg/L	31/33 (94%)
Total Dissolved P (6020)	7	0.005	0.022	0.012	0.0072	mg/L	4/7 (57%)
Total ortho P (365.2)	3	0.0125	0.031	0.0187	0.0107	mg/L	1/3 (33%)
Total P (365.2)	3	0.0125	0.049	0.0308	0.0183	mg/L	2/3 (67%)
Total P (4500PF)	33	0.0042	0.095	0.0138	0.0178	mg/L	33/33 (100%)
Total P (6020)	7	0.005	0.043	0.0221	0.0146	mg/L	6/7 (86%)
Total Sulfate (SO <sub>4</sub> )	7	4.03	7.18	5.5257	1.1089	mg/L	7/7 (100%)
DOC	4	1.13	2.18	1.4575	0.4924	mg/L	4/4 (100%)
TOC	21	0.5	23.1	2.259	4.852	mg/L	14/21 (67%)
Total Dissolved Solids	7	63	257	123	64.6813	mg/L	7/7 (100%)
Total Suspended Solids	7	1	6	2.7143	1.8898	mg/L	4/7 (57%)
pH	4	6.7	7.9	7.325	0.5679	s.u.	4/4 (100%)

**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 11: Summary of Reference Streams High Flow**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Chloride	1	2.66	2.66	2.66		mg/L	1/1 (100%)
Chlorophyll a, corrected	1	0.3	0.3	0.3		ug/L	1/1 (100%)
Chlorophyll a, uncorrected	1	0.5	0.5	0.5		ug/L	1/1 (100%)
Nitrite + Nitrate (as N)	1	0.05	0.05	0.05		mg/L	0/1 (0%)
Total Kjeldahl Nitrogen	1	0.25	0.25	0.25		mg/L	0/1 (0%)
Soluble Reactive P (4500PF)	3	0.0005	0.0075	0.0039	0.0035	mg/L	2/3 (67%)
Total Dissolved P (4500PF)	3	0.0028	0.0093	0.0065	0.0033	mg/L	3/3 (100%)
Total P (4500PF)	3	0.0101	0.0207	0.0164	0.0056	mg/L	3/3 (100%)
TOC	1	1.03	1.03	1.03		mg/L	1/1 (100%)

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**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water**  
**Table 12: Summary of Groundwater Geoprobe Samples**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Alkalinity (as CaCO <sub>3</sub> )	17	8	238	91.3529	51.6611	mg/L	17/17 (100%)
E. coli	19	1	12000	1314.11	3131.1146	MPN*/100ml	17/19 (89%)
Enterococcus Group	19	1	7600	1366.84	2232.823	MPN*/100ml	16/19 (84%)
Fecal Coliform	19	1	12000	1347.37	3118.3853	MPN*/100ml	17/19 (89%)
Salmonella species	19	1	1	1	0	MPN*/100ml	0/19 (0%)
Staphylococcus aureus	19	0.55	0.55	0.55	0	MPN*/100ml	0/19 (0%)
Total Coliform	19	1	12000	2508	3082.6139	MPN*/100ml	18/19 (95%)
Chloride	17	1.78	64.2	11.6265	15.2022	mg/L	17/17 (100%)
17a-estradiol	17	0.5	0.5	0.5	0	ng/L	0/17 (0%)
17b-estradiol	17	0.5	0.5	0.5	0	ng/L	0/17 (0%)
Estriol	17	0.5	0.5	0.5	0	ng/L	0/17 (0%)
Estrone	17	0.5	0.5	0.5	0	ng/L	0/17 (0%)
Dissolved Aluminum	17	0.05	0.655	0.1155	0.1563	mg/L	4/17 (24%)
Dissolved Antimony	17	0.0005	0.0005	0.0005	0	mg/L	0/17 (0%)
Dissolved Arsenic	17	0.0005	0.003	0.0006	0.0006	mg/L	1/17 (6%)
Dissolved Barium	17	0.023	0.14	0.0459	0.0274	mg/L	17/17 (100%)
Dissolved Beryllium	17	0.0005	0.0005	0.0005	0	mg/L	0/17 (0%)
Dissolved Cadmium	17	0.0005	0.0005	0.0005	0	mg/L	0/17 (0%)
Dissolved Calcium	17	3.55	166	50.3424	38.3686	mg/L	17/17 (100%)
Dissolved Chromium	17	0.0005	0.002	0.0007	0.0004	mg/L	6/17 (35%)
Dissolved Cobalt	17	0.0005	0.011	0.0019	0.0028	mg/L	6/17 (35%)
Dissolved Copper	17	0.001	0.013	0.0056	0.004	mg/L	17/17 (100%)
Dissolved Iron	17	0.05	0.45	0.0842	0.0999	mg/L	3/17 (18%)
Dissolved Lead	17	0.0005	0.0005	0.0005	0	mg/L	0/17 (0%)
Dissolved Magnesium	17	0.63	5.56	1.9266	1.3242	mg/L	17/17 (100%)
Dissolved Manganese	17	0.003	2.47	0.3968	0.6625	mg/L	17/17 (100%)
Dissolved Mercury	17	0.0001	0.0004	0.0001	0.0001	mg/L	0/17 (0%)
Dissolved Molybdenum	17	0.0005	0.01	0.0029	0.0031	mg/L	10/17 (59%)
Dissolved Nickel	17	0.0005	0.007	0.0022	0.002	mg/L	11/17 (65%)
Dissolved Potassium	17	0.472	4.01	1.7648	1.1087	mg/L	17/17 (100%)
Dissolved Selenium	17	0.0005	0.008	0.001	0.0018	mg/L	2/17 (12%)
Dissolved Silver	17	0.0005	0.0005	0.0005	0	mg/L	0/17 (0%)
Dissolved Sodium	17	1.29	16.9	5.9806	4.8971	mg/L	17/17 (100%)
Dissolved Thallium	17	0.0005	0.0005	0.0005	0	mg/L	0/17 (0%)
Dissolved Vanadium	17	0.0025	0.0025	0.0025	0	mg/L	0/17 (0%)
Dissolved Zinc	17	0.0025	0.016	0.0045	0.0037	mg/L	5/17 (29%)
Total Aluminum	17	2.94	748	196.143	214.8469	mg/L	17/17 (100%)
Total Antimony	17	0.0005	0.001	0.0005	0.0001	mg/L	1/17 (6%)
Total Arsenic	17	0.002	0.44	0.0817	0.1075	mg/L	17/17 (100%)
Total Barium	17	0.07	7.75	2.0105	2.3564	mg/L	17/17 (100%)
Total Beryllium	17	0.0005	0.04	0.0109	0.0119	mg/L	13/17 (76%)
Total Cadmium	17	0.0005	0.022	0.0044	0.0058	mg/L	9/17 (53%)
Total Calcium	17	9.56	249	87.9624	61.7034	mg/L	17/17 (100%)
Total Chromium	17	0.006	1.52	0.3536	0.3732	mg/L	17/17 (100%)
Total Cobalt	17	0.003	0.34	0.0761	0.0882	mg/L	17/17 (100%)
Total Copper	17	0.003	0.5	0.1087	0.1229	mg/L	17/17 (100%)
Total Iron	17	4.02	1200	247.797	305.14	mg/L	17/17 (100%)
Total Lead	17	0.003	0.75	0.1825	0.2091	mg/L	17/17 (100%)
Total Magnesium	17	2.03	59	16.6688	16.5936	mg/L	17/17 (100%)
Total Manganese	17	0.305	68.6	16.9866	23.5667	mg/L	17/17 (100%)
Total Mercury	17	0	0.0022	0.0006	0.0006	mg/L	13/17 (76%)
Total Molybdenum	17	0.002	0.062	0.0196	0.0158	mg/L	17/17 (100%)
Total Nickel	17	0.006	1.48	0.2769	0.3613	mg/L	17/17 (100%)
Total Potassium	17	0.99	68.6	15.64	17.3449	mg/L	17/17 (100%)

NOTES:

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations

**Appendix C: Water****Table 12: Summary of Groundwater Geoprobe Samples**

Parameter	n	Min	Max	Avg	Standard Deviation	Units	Percent Detected
Total Selenium	17	0.0005	0.01	0.0041	0.0031	mg/L	8/17 (47%)
Total Silver	17	0.0005	0.005	0.001	0.0012	mg/L	2/17 (12%)
Total Sodium	17	1.2	15.5	5.9229	4.9198	mg/L	17/17 (100%)
Total Thallium	17	0.0005	0.011	0.0032	0.0031	mg/L	11/17 (65%)
Total Vanadium	17	0.0025	1.38	0.3254	0.3662	mg/L	15/17 (88%)
Total Zinc	17	0.012	2.6	0.4561	0.6249	mg/L	17/17 (100%)
Ammonia Nitrogen	17	0.05	0.309	0.0653	0.0628	mg/L	1/17 (6%)
Nitrite + Nitrate (as N)	17	0.05	19.1	6.6008	6.4226	mg/L	16/17 (94%)
Total Kjeldahl Nitrogen	17	0.8	24.3	10.2712	7.8941	mg/L	17/17 (100%)
Brevibacteria 16S rRNA	7					Copies/L	1/7 (14%)
Soluble Reactive P (4500PF)	19	0.0005	0.8084	0.1365	0.2133	mg/L	17/19 (89%)
Total Dissolved P (4500PF)	19	0.001	4.5021	0.5949	1.0558	mg/L	18/19 (95%)
Total Dissolved P (6020)	17	0.005	0.024	0.0095	0.0063	mg/L	7/17 (41%)
Total P (4500PF)	19	5.6408	172.3552	71.3452	56.1379	mg/L	19/19 (100%)
Total P (6020)	17	0.016	24.6	4.3555	6.1193	mg/L	17/17 (100%)
Total Sulfate (SO4)	17	3.69	112	16.8259	25.3878	mg/L	17/17 (100%)
TOC	17	0.5	7.33	2.3447	1.8577	mg/L	15/17 (88%)
Total Dissolved Solids	9	137	452	300.222	85.9459	mg/L	9/9 (100%)
Total Suspended Solids	17	39	42400	8084.41	11911.858	mg/L	17/17 (100%)
pH	17	4.4	7.2	6.6588	0.6032	s.u.	17/17 (100%)

**NOTES:**

(1) Non-detects treated as 1/2 the detection limit for min/max/avg/st. dev calculations